March 1974 Number 355-Part II Data for September 1973–August 1973
& Miscellanea

Solar-Geophysical Data comprehensive reports

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Solar - Geophysical Data

NO. 355 MARCH 1974

Part II (Comprehensive Reports)

DATA FOR
SEPTEMBER 1973
AUGUST 1973
& MISCELLANEA

NATIONAL GEOPHYSICAL AND SOLAR - TERRESTRIAL DATA CENTER
BOULDER, COLORADO

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SOLAR - GEOPHYSICAL DATA

No. 355

Issued in two parts

Hope I. Leighton, Editor

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Solar - Terrestrial Data Services Division

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For explanations of the data contained herein see *Descriptive Text* published as supplement to February 1974 *Solar-Geophysical Data* (Number 354).

SOLAR FLARES
Confirmed

SEPTEMBER 1973

OBSERVATORY	OBSERVED UT				LOCATION					DURATION	IMPORTANCE	OBS. COND.	OBS. TYPE	MEASUREMENTS					REMARKS
	DATE SEP	START	END	MAX. PHASE	APPROX. LAT.	APPROX. MER. DIST.	CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY	MIN.				TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hg	MAX. INT. %	
	01	0000	0003	NO FLARE PATROL															
GRP49403	01	0041	0052	0042	N14	E71	.933	12510	6.4	11	-N				.73				3 2 2 4
MANI	01	0041E	00500	0042	N14	E70	.933	12510	6.3	9D	-N	1		0042	.62	1.33			
PALE	01	0041E	00420	0042U	N13	E73	.950	12510	6.5	1D	-N	2	V		.83				F
CRCN	01	0046E	0054		N14	E71	.939	12510	6.4	8C	-N		V		.62				
469 CRCN	01	0125E	0127D	0127	N04	W21	.361	12511	29.5	2D	--N		V		.72				2
470 CRCN	01	0125E	0215	0147	N04	W21	.361	12511	29.5	50D	--N		V		.72				2
GRP49471	01	0205	0216	0209	N14	E75	.960	12510	6.7	11	-N				.78				2 2 2 3
CRCN	01	0205	0216	0206	N14	E72	.945	12510	6.5	11	-N		V		.83				
PALE	01	0207E	0215	0209U	N14	E78	.973	12510	6.9	8D	-N	2	V		.72				F
GRP49473	01	0549	0558	0552	N16	E73	.950	12510	6.7	9	--N				.29				2 2 2 7
ATHN	01	0548	0558	0551	N15	E76	.964	12510	6.9	10	-N	3	C		.33				DE
TEHR	01	0549	0555C	0553U	N16	E70	.933	12510	6.5	6D	-N	2	C		.25				DE
GRF49470	01	0551	0753	0555	N05	W26	.437	12511	30.3	122	-N				1.54				3 3 2 10
ADST	01	0551E	0645D	0555	N05	W25	.422	12511	29.4	54D	-N		P	0555	1.35	1.50		78	FJK
ADST	01	0556	0645D	0600	N07	W20	.333	12511	29.7	49D	-F		P	0600	.90	1.00		59	DK
ISTA	01	0630E	0755		N05	W27	.453	12511	29.2	85D	-N								
ADST	01	0725E	07410	0731	N05	W27	.453	12511	29.3	16D	-F		P	0731	.90	1.00		72	D
CANR	01	0728E	0750		N05	W26	.437	12511	29.4	22C	-F		V		.83				
GRP49477	01	0749	0807	0751	N14	E66	.907	12510	6.3	18	--F				.39				4 4 3 6
CANR	01	0744	0803	0747	N16	E66	.906	12510	6.3	19	-F		V		.41				
CRCN	01	0748E	0814	0752	N15	E67	.913	12510	6.4	26D	-F		V		.52				
TEHR	01	0749	0805	0755	N13	E66	.907	12510	6.3	16	-N	2	C		.25				DE
CANR	01	0750	0803	0752	N14	E65	.899	12510	6.2	13	-F		V		.10				
ISTA	01	0755	0805		N13	E67	.914	12510	6.4	10	-N								
GRP49479	01	0844	0906	0845	N14	W05	.146	12504	1.0	22	-F				.66				2 2 1 7
ATHN	01	0843E	0901	0845	N13	W05	.132	12504	1.0	18D	-F	3	V		.66				F
ISTA	01	0844	09100		N15	W04	.152	12504	1.1	26D	1N								
GRP49480	01	1046	1100	1050	N15	W03	.145	12504	1.2	12	-N				.97				4 4 4 5
TEHR	01	1046	1103	1050	N15	E01	.137	12504	1.5	17	-N	2	C		.66				F
ATHN	01	1046E	11000	1051	N13	W06	.144	12504	1.0	12D	-N	3	V		.66				F
MEUD	01	1046	1057	1050	N15	W02	.140	12504	1.3	9	-F		C	1050	.83	.80			E
CATA	01	1050	1050D	1050	N15	W03	.145	12504	1.2		-N	3		1050	1.73	1.75		(200)	
GRF49481	01	1314	1319	1314	S15	E65	.928	12512	6.4	5	--F				.36				2 2 2 4
CANR	01	1313E	1320	1313	S14	E64	.920	12512	6.4	7D	-F		V	1313	.41	.80			
MEUD	01	1314	1318	1315	S16	E66	.935	12512	6.5	4	-F		C	1315	.31				D
GRF49482	01	1349	1401	1350	N13	E63	.884	12510	6.3	12	--F				.78				3 3 3 5
LOCA	01	1345	1405	1348	N12	E62	.875	12510	6.2	20	1N		V	1348	1.26	2.90			
ATHN	01	1347E	1356	1348U	N14	E65	.899	12510	6.4	11D	-F	3	V		.66				F
MEUD	01	1354	1359	1354	N13	E62	.876	12510	6.2	5	-F		C	1354	.41	.80			E
GRP49483	01	1430	1435	1430	S17	E30	.619	12507	3.9	5	--F				.52				2 1 1 6
MEUD	01	1430	1435	1430	S17	E30	.619	12507	3.9	5	-F		C	1430	.52	.60			E
HUAN	01	1431E	1441D		S18	E32	.648	12507	4.0	10D	-F	1	P	1441	.21	.27			CD
GRP49484	01	1825	1841	1829	S17	E27	.569	12507	3.8	16	--F				.57				2 2 2 2
PALE	01	1825	1848	1830	S18	E28	.607	12507	3.9	23	-F	3	C		.72				F
CANR	01	1828E	1833	1828E	S16	E25	.556	12507	3.6	5D	-N		V	1828	.41	.50			
	01	2050	2122	NO FLARE PATROL															
485 PALE	01	2122E	2130	2126U	S17	E65	.931	12512	6.8	8D	-N	3	V		.52				1
	01	2135	2214	NO FLARE PATROL															
	01	2220	2234	NO FLARE PATROL															
486 MITK	01	2257	2332	2308	S16	E58	.882	12512	6.3	35	-N		C	2308	.93	2.00			EH 3
488 MITK	02	0006	0025	0011	S16	E56	.882	12512	6.4	13	-N		C	0011	.72	1.50			DH 5
GRF49489	02	0042	0050	0045	S16	E59	.890	12512	6.5	8	-B				.83				3 3 3 5
MITK	02	0038	0051	0045	S17	E56	.870	12512	6.2	13	-B		C	0045	.93	1.80			D
VORO	02	0043	0049	0044	S15	E58	.880	12512	6.4	6	-B		C	0044	.93	1.90		85	DJ
PALE	02	0044	0051	0047	S16	E62	.911	12512	6.7	7	-N	2	V		.62				F

SOLAR FLARES
Confirmed

SEPTEMBER 1973

OBSERVATORY	OBSERVED UT				LOCATION					DURATION	IMPORTANCE	OBS.		MEASUREMENTS					REMARKS
	DATE SEP	START	END	MAX. PHASE	APPROX. LAT.	APPROX. MER. DIST.	CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY	MIN.		COND.	TYPE	TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hg	MAX. INT. %	
GRP4943I	02	0223	0247	0231	S18	E57	.880	12512	6.4	24	-F				.41				2 1 1 4
CRON	02	0223E	0247	0231	S16	E57	.880	12512	6.4	24D	-F		V		.41				
VORO	02	0240	0253	0242	S15	E58	.880	12512	6.5	13	-B		C	0242	.84	1.70		76	DJ
5 STATIONS REPORTING GROUP 49452. 1 STATIONS OBSERVING AND NOT REPORTING.																			
GRP49452	02	0531	0553	0540	S18	E56	.872	12512	6.4	22	-N				.67				4 4 4 5
CRON	02	0522	0638D	0525	S18	E56	.872	12512	6.4	76D	-N		V		.62				
ABST	02	0535	0610	0541	S17	E56	.870	12512	6.4	35	-B		C	0541	.90	1.90		98	D
MITK	02	0536	0544	0540	S17	E57	.877	12512	6.5	8	-F		C	0540	.62	1.20			D
TEHR	02	0540E	0545	0540U	S18	E56	.872	12512	6.4	5D	-N	4	V		.52				DE
49452	02	0400	0621	0434	S18	E55	.865	12512	6.3	141	*1B				3.36				2 2 2 5
CRON	02	0359E	0505	0424	S18	E56	.872	12512	6.4	66D	1N		V		2.89				
KODA	02	0400	0621D	0444	S17	E54	.854	12512	6.2	141D	1B		P	0621	3.87	3.87	2.08		CE
GRP49493	02	0614	0633	0618	S18	E55	.865	12512	6.4	19	1N				1.28				5 5 5 8
CRON	02	0522	0638D	0617	S16	E56	.872	12512	6.4	76D	-N		V		.62				
MITK	02	0614	0629	0616	S17	E55	.862	12512	6.4	15	1N		C	0616	1.34	2.50			E
MANI	02	0614	0632	0618	S17	E53	.845	12512	6.2	18	1N	2		0618	1.75	3.14			F
ABST	02	0615	0634	0617	S19	E54	.860	12512	6.3	19	1N		C	0617	2.17	4.50		90	E
TEHR	02	0624E	0634	0624U	S18	E56	.872	12512	6.5	10D	-N	4	V		.52				F
GRP49497	02	0750	0756	0751	S18	E55	.865	12512	6.5	6	--N				.40				8 8 6 10
TEHR	02	0748E	0754	0750U	S16	E56	.872	12512	6.5	6D	-N	4	V		.52				DE
MEUD	02	0749	0753	0751	S18	E56	.872	12512	6.5	4	-F		C	0751	.31	.60			D
ATHN	02	0750E	0758	0750U	S18	E55	.865	12512	6.5	8D	-N	3	V		.17				DE
ABST	02	0750E	0757	0751	S17	E55	.862	12512	6.5	7D	-N		P	0751	.90	1.70		87	DZ
ISTA	02	0750E	0754		S17	E58	.885	12512	6.7	4D	-F								D
WEND	02	0750	0803		S18	E55	.865	12512	6.5	13	-N								
CANR	02	0751E	0753D		S15	E53	.839	12512	6.3	2D	-N		V	0753	.21	.30			
ARCE	02	0754E	0756D		S19	E54	.860	12512	6.4	2D	-F		C	0755	.29	.50			TB
GRP49500	02	0753	0816	0757	S09	E01	.280	12516	2.4	23	--N				.69				8 8 7 11
CANR	02	0752	0755D	0753	S08	E04	.271	12516	2.6	3D	-N		V	0755	.41	.40			
MELO	02	0753	0802	0755	S09	E00	.279	12516	2.3	9	-N		C	0755	.72	.70			H
ABST	02	0753	0822D	0757	S09	W01	.280	12516	2.3	29D	-N		P	0757	1.18	1.20		78	EZ
ISTA	02	0753	0838		S08	E01	.263	12516	2.4	45	-F								
ARCE	02	0754E	0812D		S09	W01	.280	12516	2.3	13D	-B		C	0757	.35	.40			B
ATHN	02	0754E	0811	0754U	S10	E00	.296	12516	2.3	17D	-N	2	C		.50				F
CRON	02	0754	0815	0757	S08	E01	.263	12516	2.4	21	-N		V		.72				
MANI	02	0804E	0812	0805	S10	E00	.296	12516	2.3	8D	-N	2		0805	.93	.97			F
GRP49501	02	0813	0821	0815	S17	E56	.870	12512	6.5	8	-N				.57				3 3 3 11
ATHN	02	0811	0824	0815	S16	E58	.887	12512	6.7	13	-N	2	C		.50				DE
ABST	02	0814	0822D	0816	S17	E55	.862	12512	6.5	8D	-N		P	0816	.90	1.70		78	D
MEUD	02	0815	0816	0815	S16	E55	.865	12512	6.5	3	-F		C	0815	.31	.60			D
ABST	02	0816	0822D	0818	S15	E54	.847	12512	6.4	6D	-F		P	0818	.90	1.90		71	D
GRP49502	02	0823	0841	0831	S09	E00	.279	12516	2.3	18	--N				.90				4 4 3 10
WEND	02	0818	0838		S10	E00	.296	12516	2.3	20	-N								
MANI	02	0821	0845	0830	S10	E00	.296	12516	2.3	24	-N	2		0830	.83	.86			E
CRON	02	0826	0845	0831	S08	E01	.263	12516	2.4	19	-N		V		.83				
MEUD	02	0827	0837	0831	S09	W01	.280	12516	2.3	10	-N		C	0831	1.03	1.00			
GRP49510	02	1344	1355	1345	S17	E50	.819	12512	6.3	11	--F				.59				3 3 3 8
UPIC	02	1343E	1357U	1345	S16	E50	.823	12512	6.3	14D	-F		P	1345	.85				T
MEUD	02	1344	1352	1345	S17	E51	.829	12512	6.4	3	-F		C	1345	.52	.90			
CANR	02	1345E	1355	1345E	S17	E50	.819	12512	6.3	10D	-N		V	1345	.41	.60			
GRP49514	02	1625	1643	1629	S16	E49	.807	12512	6.4	18	--F				.38				3 3 3 6
CANR	02	1625	1635	1628	S17	E49	.810	12512	6.4	10	-F		V	1628	.41	.60			
HUAN	02	1625	1639	1628	S15	E49	.803	12512	6.4	14	-F	1	C	1628	.41	.69			
MEUD	02	1626	1655	1630	S16	E50	.816	12512	6.4	29	-F		C	1630	.31	.50			
MEUD	02	1626	1655	1642	S16	E50	.816	12512	6.4	29	-F								
515 HUAN	02	1809	1819	1811	S16	E50	.816	12512	6.5	10	--F	1	C	1811					E 2
GRP49516	02	1838	2007	(1951)	S15	E16	.458	12507	4.0	83	--F				.49				2 2 2 2
HUAN	02	1838	1954D		S14	E17	.455	12507	4.1	76D	-F	1	P	1952	.21	.23			D
MCMA	02	1950E	2007		S16	E15	.462	12507	4.0	17D	-F		C	1950	.77	.90			E
	02	1856	1904	NO FLARE PATROL															
517 MCMA	02	1904E	1925		S16	E47	.796	12512	6.3	21D	-N		P	1904	.62	1.10			E 1
	02	2020	2053	NO FLARE PATROL															
	02	2058	2104	NO FLARE PATROL															

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OBSERVATORY	OBSERVED UT				LOCATION						DURATION MIN.	IMPORTANCE	OBS. COND.	OBS. TYPE	MEASUREMENTS					REMARKS
	DATE SEP	START	END	MAX. PHASE	APPROX. LAT.	APPROX. MER. DIST.	CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY						TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hα	MAX. INT. %	
	02	2126	2130	NO FLARE PATROL																
	02	2205	2212	NO FLARE PATROL																
GRP49519	03	0202	0241	0210	S15	E43	.759	12512	6.3		39	-N				.62				2 1 1 3
CHCN	03	0202E	0241	0210	S18	E43	.759	12512	6.3		39D	-N		V		.62				
KODA	03	0216	0224D		S17	E44	.764	12512	6.4		6D	2F		P	0224	5.24	5.24			E
GRP49530	03	0824	0846	0829	S17	E41	.734	12512	6.4		22	-N				.68				5 5 5 9
CHCN	03	0818	0850	0825	S17	E41	.734	12512	6.4		32	-N		V		1.24				
MCNT	03	0820	0829	0823	S16	E40	.718	12512	6.3		9	-F		C	0823	.10				
ARCE	03	0825E	0855		S17	E40	.724	12512	6.4		30D	-N		C	0826	.93	1.30			B
TEHK	03	0826E	0841	0828	S17	E42	.744	12512	6.5		15D	-N	4	V		.50				DE R
CANR	03	0830	0853	0835	S17	E40	.724	12512	6.4		23	-N		V	0835	.62	.80			
GRP49536	03	1043	1055	1044	S17	E39	.714	12512	6.4		12	-N				.77				6 6 6 7
TEHR	03	1041E	1054D	1044	S17	E42	.744	12512	6.6		13D	-N	4	V		.41				DE
CANR	03	1042	1107	1044	S17	E38	.703	12512	6.3		25	-N		V	1044	.93	1.30			
MCNT	03	1042	1048	1043	S17	E39	.714	12512	6.4		6	-F		C	1043	.10				
MEUD	03	1043	1050	1044	S17	E39	.714	12512	6.4		7	-N		C	1044	1.13	1.50			E
ZURI	03	1044	1056	1044	S17	E40	.724	12512	6.4		14	-N		C	1044	1.47	2.10			
CATA	03	1045	1050	1045	S17	E37	.693	12512	6.2		5	-B	3		1045	.58	.80		(240)	
6 STATIONS REPORTING GROUP 49539. 8 STATIONS OBSERVING AND NOT REPORTING.																				
GRP49539	03	1614	1635	1617	N23	W04	.280	12508	3.4		21	-N				1.69				4 4 4 6
MCMA	03	1613	1644	1616	N24	W04	.296	12508	3.4		31	-N		C	1616	1.29	1.40			EL
MEUD	03	1614	1632	1616	N22	W03	.260	12508	3.5		18	-B		C	1616	1.55	1.60			E
CANR	03	1615E	1625	1618	N22	W03	.260	12508	3.5		10D	1N		V	1618	2.27	2.20			
RAMY	03	1618E	1638	1618U	N23	W04	.280	12508	3.4		20D	-N	2	V		1.65				F
49539	03	1606	1644	(1632)	N23	W04	.280	12508	3.4		36	*-F				3.33				2 2 2 6
WEND	03	1608E	1644		N22	W04	.263	12508	3.4		36D	1N		P		5.16				
ARCE	03	1613E	1632D		N23	W04	.280	12508	3.4		19D	-F		P	1632	1.49	1.60			
	03	1800	1809	NO FLARE PATROL																
	03	1825	1941	NO FLARE PATROL																
	03	1943	2117	NO FLARE PATROL																
540 RAMY	03	2018E	2030D	2018U	S13	E62	.905	12513	8.5		12D	--N	3	V		.28				DE 1
	03	2120	2200	NO FLARE PATROL																
541 RAMY	03	2124E	2139D	2124U	N13	E28	.472	12510	6.0		15D	--F	2	V		.37				DE 2
	03	2202	2219	NO FLARE PATROL																
	03	2234	2245	NO FLARE PATROL																
GRP49542	03	2357	0058	0043	S17	E31	.630	12512	6.3		61	--F				.42				2 2 2 4
CHCN	03	2357E	0058		S17	E30	.620	12512	6.2		61D	-F		V		.52				
MANI	04	0036	0048D	0043U	S17	E32	.641	12512	6.4		12D	-N	2		0043	.31	.40			F
546 MITK	04	0125	0140	0130	N14	E23	.400	12510	5.8		15	-N		C	0130	1.75	1.90			H 3
GRP49550	04	0520	0533	0523	N14	E21	.370	12510	5.8		13	-N				1.29				4 4 4 7
CHCN	04	0520	0535	0522	N13	E19	.335	12510	5.6		15	-N		V		1.03				
TACH	04	0520	0531	0522	N17	E22	.400	12510	5.9		11	1N		V	0522	2.19	2.37	2.66	60	ET
ABST	04	0521E	0525D	0521	N14	E21	.370	12510	5.8		4D	-F		P	0521	.90	1.00			D
MANI	04	0524E	0529D	0527	N13	E22	.381	12510	5.9		5D	-N	1		0527	1.03	1.12			EH
9 STATIONS REPORTING GROUP 49556. 3 STATIONS OBSERVING AND NOT REPORTING.																				
GRP49556	04	0804	0825	0815	N14	E20	.355	12510	5.8		21	--N				.57				5 5 3 12
ARCE	04	0800E	0825		N14	E20	.355	12510	5.8		25D	-N		C	0815	.61	.70			E
ISTA	04	0804	0823		N14	E22	.385	12510	6.0		19	-F								E
CATA	04	0805	0830	0815	N14	E20	.355	12510	5.8		25	-N	3		0815	.58	.62		(195)	
WEND	04	0806	0820		N14	E20	.355	12510	5.8		14	-N								
CRCN	04	0606	0827		N16	E20	.366	12510	5.8		21	-N		V		.52				
49556	04	0601	0621	0804	N14	E20	.355	12510	5.8		20	*-F				.47				4 4 4 12
CANR	04	0757	0818	0801	N14	E20	.355	12510	5.8		21	-F		V		.62				
MCNT	04	0800	0826	0803	N14	E21	.370	12510	5.9		26	-N		C	0803	.21				EH
ZURI	04	0801	0821	0807	N15	E20	.360	12510	5.8		20	-N		C	0807	.63	.67			
MEUD	04	0804	0816	0804	N13	E20	.350	12510	5.8		12	-F		C	0804	.41	.40			E

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OBSERV-ATORY	OBSERVED UT				LOCATION					DURA-TION	IM-POR-TANCE	OBS.		MEASUREMENTS					REMARKS
	DATE SEP	START	END	MAX. PHASE	APPROX. LAT.	APPROX. MER. DIST.	CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY	MIN.		COND.	TYPE	TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hg	MAX. INT. %	
GRP49557	04	0946	1003	0949	N14	E19	.340	12510	5.8	17	-B				1.33				9 9 9 11
TEHR	04	0943E	1001	0947	N13	E18	.319	12510	5.8	18D	-B		V		.99				
CANR	04	0944	1020	0948	N13	E19	.335	12510	5.8	36	-B		V		1.86				
CRON	04	0945	0957		N15	E19	.345	12510	5.8	12	-N		V		1.34				
MELO	04	0946	1000	0948	N13	E19	.335	12510	5.8	14	-B		C	0948	1.34	1.40			E
MONT	04	0946	1002	0948	N14	E19	.340	12510	5.8	16	-B		C	0948	2.06				EH
ZURI	04	0947	0959	0949	N15	E20	.360	12510	5.3	12	-B		C	0949	1.26	1.30			
ARCE	04	0948	1000	0951	N14	E19	.340	12510	5.8	12	-B		C	0951	.93	1.00			HFE
CATA	04	0950	1005	0950	N14	E19	.340	12510	5.8	15	-B	1		0950	1.16	1.23		(269)	
UPIC	04	0952E	0959U	0953	N14	E20	.355	12510	5.9	7D	-B		P	0953	1.05				
GRP49559	04	1129	1148	1135	S13	E55	.850	12513	8.6	13	-N				.86				6 6 6 6
MEUD	04	1123	1130	1125	S12	E55	.848	12513	8.6	7	-N		C	1125	.62	1.10			
CANR	04	1123	1130	1125	S10	E57	.860	12513	8.7	7	-N		V		.93				
ZURI	04	1123	1129	1125	S12	E55	.848	12513	8.6	6	-N		C	1125	.73	1.40			
UPIC	04	1125E	1129U		S12	E57	.865	12513	8.8	4D	-F		V	1127	.84				
TEHR	04	1127E	1133	1129	S14	E60	.893	12513	9.0	6D	-N	4	V		.25				DE
CANR	04	1128	1157	1138	S13	E55	.850	12513	8.6	29	-N		V		1.03				
CATA	04	1130	1140	1130	S12	E55	.848	12513	8.6	10	-B	3		1130	.87	1.63		(219)	
MELO	04	1132	1143	1135	S15	E51	.821	12513	8.3	11	-N		C	1135	.93	1.50			
UPIC	04	1132	1145		S11	E56	.854	12513	8.7	13	-N		V	1134	1.05				
ZURI	04	1133	1141	1135	S14	E52	.827	12513	8.4	8	-N		C	1135	1.05	1.90			
CATA	04	1140	1210	1140	S14	E51	.816	12513	8.3	30	1B	3		1140	1.16	2.01		(257)	Z
GRF49501	04	1454	1510	1500	S17	W12	.454	12507	3.7	16	--N				.71				6 6 6 8
ARCE	04	1445	1508	1459	S16	W12	.440	12507	3.7	23	-N		C	1459	1.19	1.30			
ZURI	04	1455	1509	1459	S17	W12	.454	12507	3.7	14	-N		C	1459	1.05	1.20			
CATA	04	1455	1515	1500	S18	W13	.474	12507	3.6	20	-N	3		1500	.58	.65		(186)	
MCMA	04	1455	1503D	1458	S18	W14	.481	12507	3.6	8D	-F		P	1458	.41	.40			D
MEUD	04	1455	1505	1459	S17	W12	.454	12507	3.7	10	-F		C	1459	.41	.40			
CANR	04	1459	1513	1503	S18	W10	.455	12507	3.9	14	-N		V		.62				
GRP49502	04	1459	1517	1505	N12	E18	.315	12510	6.0	18	-B				1.90				8 8 8 8
ARCE	04	1457	1518	1506	N11	E18	.312	12510	6.0	21	1B		C	1506	2.19	2.30			F
WEND	04	1456E	1518		N12	E21	.362	12510	6.2	20D	1N		V		4.13				
UPIC	04	1459	1514	1507	N11	E18	.312	12510	6.0	15	-F		P	1507	1.26				
MEUD	04	1459	1515	1504	N12	E18	.315	12510	6.0	16	-N		C	1504	1.13	1.20			E
MCMA	04	1459	1503D		N10	E19	.325	12510	6.0	4D	-B		P	1502	.83	.90			EH
CANR	04	1459	1520	1503	N13	E17	.304	12510	5.9	21	-B		V		1.96				
ZURI	04	1459	1517	1503	N13	E18	.319	12510	6.0	18	-B		C	1503	2.00	2.10			
CATA	04	1500	1520	1505	N12	E13	.236	12510	5.6	20	-B	3		1505	1.73	1.78		(257)	
GRP49564	04	1545	1606	1549	S12	W11	.377	12507	3.8	23	-N				1.09				4 4 4 7
CANR	04	1543	1621	1549	S10	W12	.358	12507	3.8	38	-N		V		1.86				
CATA	04	1545	1600	1550	S12	W10	.369	12507	3.9	15	-N	3		1550	.58	.62		(182)	
ZURI	04	1545	1615	1549	S13	W09	.377	12507	4.0	30	-N		C	1549	1.37	1.50			
ARCE	04	1545E	1555		S14	W13	.420	12507	3.7	10D	-F		C	1551	.55	.50			
GRP49565	04	1627	1652	1635	N14	E16	.294	12510	5.9	25	-N				1.15				7 6 6 7
ZURI	04	1627	1649	1633	N13	E18	.319	12510	6.0	22	-N		C	1633	1.16	1.20			
MCMA	04	1627	1657	1634	N13	E14	.258	12510	5.7	30	-B		C	1634	.93	1.00			EH
CANR	04	1627	1655	1636	N15	E16	.301	12510	5.9	26	-N		V		2.27				
MEUD	04	1628	1650	1634	N13	E16	.288	12510	5.9	22	-N		C	1634	1.13	1.20			E
ARCE	04	1628	1646	1638	N15	E15	.286	12510	5.8	18	-N		C	1638	.74	.80			F
HUAN	04	1632E	1651		N14	E16	.294	12510	5.9	19D	-N	2	C	1635	.67	.70			E
WEND	04	1642	1658		N13	E16	.288	12510	5.9	16	-F								
GRP49566	04	1710	1717	1713	S14	E51	.816	12513	8.5	7	--F				.31				2 2 1 4
CANR	04	1708	1712D	1712	S13	E51	.815	12513	8.5	4D	-F		V						
HUAN	04	1712	1717	1713	S15	E50	.812	12513	8.5	5	-N	1	C	1713	.31	.53			
	04	2045	2053	NO FLARE PATROL															
	04	2059	2102	NO FLARE PATROL															
567 CRON	05	0215	0220		S16	W16	.471	12507	3.9	5	--F		V		.52				2
GRF49503	05	0337	0400	0340	N18	E19	.365	12510	6.6	23	-B				1.11				4 4 4 8
TEHR	05	0335	0401	0338	N17	E19	.358	12510	6.6	26	-B	4	V		.83				F
CRON	05	0336	0359		N18	E18	.351	12510	6.5	23	-N		V		1.24				
MANI	05	0337	0402	0340	N19	E19	.373	12510	6.6	25	-N	2		0340	1.44	1.55			F
VORO	05	0339	0356	0343	N18	E18	.351	12510	6.5	17	-B		C	0343	.93	1.10		87	DJ
GRP49570	05	0436	0451	0440	S18	W20	.531	12507	3.7	15	--F				.52				2 2 2 5
TEHR	05	0436E	0451	0439	S17	W19	.510	12507	3.8	15D	-N	4	V		.41				F
MANI	05	0441E	0451	0441U	S19	W20	.542	12507	3.7	10D	-F	2		0441	.62	.73			

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OBSERVATORY	OBSERVED UT				LOCATION					DURATION	IMPORTANCE	OBS.		MEASUREMENTS					REMARKS
	DATE SEP	START	END	MAX. PHASE	APPROX. LAT.	APPROX. MER. DIST.	CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY	MIN.		COND.	TYPE	TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hg.	MAX. INT. %	
GRP495757	05	0920	0940	0921	N11	E08	.152	12510	6.0	20	-N				1.05				6 6 5 8
CANR	05	0912	0944	0914	N14	E13	.249	12510	6.4	32	-F		V	0914	.52	.50			
CANR	05	0917	0944	0920	N11	E08	.152	12510	6.0	27	-N		V	0920	1.86	1.80			
MONT	05	0919	0943	0923	N11	E08	.152	12510	6.0	24	-N		C	0923	.52				E
ARCE	05	0920	0935	0921	N11	E06	.152	12510	6.0	15	-N		C	0921	.58	.60			
CATA	05	0920	0940	0920	N12	E08	.160	12510	6.0	20	-N	3		0920	.87	.88		(158)	
CRON	05	0920E	0942		N11	E08	.152	12510	6.0	22D	-N		V		1.44				
WEND	05	0924	0937		N11	E05	.108	12510	5.8	13	-N								
GRP495760	05	0920	0944	0924	S17	W19	.510	12507	4.0	24	-N				2.21				7 7 7 8
CANR	05	0918	0951	0925	S17	W17	.492	12507	4.1	33	1N		V	0925	3.30	3.30			
CANR	05	0918	0922D	0922	S17	W17	.492	12507	4.1	4D	1N		V	0922	2.89	2.90			
MONT	05	0920	0932	0923	S19	W19	.533	12507	4.0	12	-N		C	0923	1.13				E
ARCE	05	0920	0955	0924	S13	W20	.475	12507	3.9	35	-N		C	0924	1.06	1.10			
CATA	05	0920	0950	0925	S18	W19	.522	12507	4.0	30	1N	3		0925	1.73	2.03		(162)	
CRON	05	0920E	0946		S17	W18	.501	12507	4.0	26D	-N		V		1.34				
ZURI	05	0921	0936	0924	S18	W18	.513	12507	4.0	15	-F		C	0924	1.78	2.10			
WEND	05	0924E	0940		S18	W23	.558	12507	3.7	16D	1N		V		5.16				
GRP495772	05	1113	1126	1117	S18	W22	.549	12507	3.8	13	-N				1.10				6 6 6 8
CATA	05	1110	1130	1120	S19	W24	.578	12507	3.7	20	-N	3		1120	.87	1.06		(155)	
TEHR	05	1111	1122	1115	S15	W18	.477	12507	4.1	11	-N	4	V		.50				F
MONT	05	1111	1128	1115	S16	W22	.549	12507	3.8	17	-N		C	1115	1.13				E
ZURI	05	1114	1124	1116	S18	W22	.549	12507	3.8	10	-F		C	1116	1.16	1.40			
UPIC	05	1114	1124		S17	W23	.548	12507	3.7	10	-F		P	1116	1.26				
CANR	05	1115	1130	1118	S16	W23	.558	12507	3.7	15	-N		V	1118	1.65	1.80			
GRP495787	05	1305	1334	1319	S17	W21	.529	12507	4.0	29	--F				.85				6 6 6 8
CATA	05	1255	1340	1320	S19	W22	.560	12507	3.9	45	-N	3		1320	.58	.69		(166)	
CANR	05	1256	1300	1258	S18	W22	.549	12507	3.9	4	-F		V	1258	.83	.90			
ARCE	05	1300E	1330D		S13	W22	.497	12507	3.9	30D	-N		C	1315	.52	.60			
ZURI	05	1303	1337	1322	S18	W18	.513	12507	4.2	34	-F		C	1322	1.47	1.70			
CANR	05	1313	1330	1316	S19	W22	.560	12507	3.9	17	-F		V		1.75				
HUAN	05	1314	1334	1320	S19	W21	.551	12507	4.0	20	-F	1	C	1320	.46	.56			
TEHR	05	1316E	1330	1318U	S15	W18	.477	12507	4.2	14D	-F	3	V		.31				F
GRP495827	05	1655	1717	1701	S17	W23	.548	12507	4.0	22	--F				.96				3 3 3 4
MEUD	05	1655	1710	1701	S15	W24	.536	12507	3.9	15	-F		C	1701	.83	.90			E
CANR	05	1655	1735	1700	S19	W24	.578	12507	3.9	40	-F		V		1.65				
HUAN	05	1656	1705	1702U	S17	W22	.538	12507	4.1	9	-F	1	C	1702	.41	.48			
	05	1810	1611	NO FLARE PATROL															
	05	1818	1828	NO FLARE PATROL															
583 HUAN	05	1828E	1834D		N11	E04	.095	12510	6.1	6D	--N	1	P	1832	.67	.68			CE 1
	05	1834	1845	NO FLARE PATROL															
	05	1857	1922	NO FLARE PATROL															
584 HUAN	05	2003	2054	2021U	S18	W25	.578	12507	4.0	51	-N	1	C	2021	1.03	1.27			E 1
	05	2046	2059	NO FLARE PATROL															
	05	2103	2114	NO FLARE PATROL															
585 HUAN	05	2104	2115	2110	S11	E37	.657	12513	8.7	11	--F	2	C	2110	.21	.27			D 2
	05	2115	2143	NO FLARE PATROL															
	05	2202	2228	NO FLARE PATROL															
586 PALE	05	2357E	0009	0000U	N15	W80	.980	12501	30.0	12D	-N	2	C		.27				3
GRP495807	06	0106	0129	0115	N12	W01	.085	12510	6.0	23	--F				.70				2 2 2 3
CRON	06	0106	0121		N12	W01	.085	12510	6.0	15	-F		V		.77				
PALE	06	0107E	0136	0115	N11	W01	.068	12510	6.0	29D	-N	2	C		.63				DE
PALE	06	0107D	0136	0108	N11	W01	.068	12510	6.0	29D	-N	2	C		.63				DE
GRP495888	06	0152	0213	0155	N14	W03	.128	12510	5.9	21	--N				.77				2 2 2 3
CRON	06	0151E	0209	0156	N14	W02	.123	12510	5.9	18D	-N		V		.62				
PALE	06	0152	0217	0154	N14	W03	.128	12510	5.9	25	-N	2	C		.91				DE H
GRP495899	06	0338	0350	0342	S15	W29	.593	12507	4.0	12	-N				1.09				3 3 2 6
PALE	06	0336	0356D	0343	S17	W30	.620	12507	3.9	20D	-N	2	V		1.34				DE
CRON	06	0337	0348	0341	S15	W26	.582	12507	4.1	11	-N		V		.83				
KODA	06	0340	0347	0342	S14	W28	.573	12507	4.1	7	-B		V	0342			2.00		C

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	DATE SEP	START	END	MAX. PHASE	APPROX. LAT.	APPROX. MER. DIST.	CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY	MIN.		COND.	TYPE	TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hg	MAX. INT. %	
GRF49532	06	0751	0805	0754	N12	W05	.119	12510	6.0	14	-N				1.13				9 9 8 12
MEUD	06	0750	0800	0752	N12	W04	.108	12510	6.0	10	-N		C	0752	.93	.90			E
ISTA	06	0750	0805		N12	W04	.108	12510	6.0	15	-N								E
CANR	06	0751	0752D	0752	N13	W10	.198	12510	5.6	1D	-N		V	0752	.83	.90			
BUDA	06	0751E	0806D		N12	W04	.108	12510	6.0	15D	-N		C	0754	2.21	2.10			E
MONT	06	0751	0806	0755	N11	W04	.095	12510	6.0	17	-N		C	0755	.72				E
CRON	06	0751	0805		N11	W04	.095	12510	6.0	14	-N		V		.72				
ABST	06	0752	0805C	0754	N13	W04	.121	12510	6.0	13C	-N		P	0754	1.44	1.40		71	E
ZURI	06	0752	0802	0753	N11	W04	.095	12510	6.0	10	-N		C	0753	1.05	1.10			
CATA	06	0755	0805	0755	N11	W04	.095	12510	6.0	10	-B	3		0755	1.16	1.16		(224)	
GRF49537	06	1206	1305	1220	S17	W35	.672	12507	3.9	59	-N				1.75				9 8 7 11
CANR	06	1203	1302	1218	S15	W34	.648	12507	4.0	59	-N		V	1218	1.55	1.80			
MEUD	06	1205	1240		S17	W34	.662	12507	4.0	35	-N		C	1210	1.34	1.70			F
RAMY	06	1205	1250	1224	S16	W32	.633	12507	4.1	45	-N	3	C		1.11				F
MCMA	06	1205	1300D	1215	S18	W34	.669	12507	4.0	55D	1N		C	1215	1.55	2.10			EJ
ZURI	06	1207	1342	1218	S17	W34	.662	12507	4.0	95	-F		C	1218	1.47	2.00			
HUAN	06	1208	1355	1221U	S18	W35	.679	12507	3.9	107	-N	1	C	1221					E
CATA	06	1210	1350	1220	S16	W39	.708	12507	3.6	100	1N	3		1220	2.90	4.10		(195)	
UPIC	06	1214E	1250U	1223	S16	W34	.655	12507	4.0	36D	1N		P	1223	2.31				
ANCE	06	1300E	1447		S13	W35	.646	12507	3.9	107D	1N		C	1300	1.58	2.10			
GRF49602	06	1616	1646	1624	S17	W37	.693	12507	3.9	30	-N				.87				9 5 4 7
RAMY	06	1611	1629	1625	S20	W38	.722	12507	3.8	13	-N	3	C		.37				DE
ANCE	06	1615	1648	1624	S18	W39	.720	12507	3.8	33	-B		C	1624	.84	1.20			H
MEUD	06	1618	1645		S17	W36	.683	12507	4.0	27	-F		C	1625	1.44	1.90			F
HUAN	06	1618	1628	1624	S19	W38	.716	12507	3.8	10	-F	1	C	1624		.44			
HUAN	06	1625	1646	1630U	S14	W36	.663	12507	4.0	21	-F	1	C	1630					
CANR	06	1630E	1700D		S16	W36	.676	12507	4.0	30D	-F		V	1630	.83	1.80			
RAMY	06	1634	1714	1639	S14	W36	.663	12507	4.0	40	-F	3	C		.46				F
604 MCMA	06	1703E	1720		S13	E23	.508	12513	8.4	17D	--F		C	1703	.31	.40			D 3
GRF49605	06	1816	1920	1632	S19	W08	.460	12512	6.2	64	--B				.62				2 2 2 3
MCMA	06	1816	1920	1830	S19	W08	.460	12512	6.2	64	-B		C	1830	.52	.60			DHW
PALE	06	1833E	1847C	1833U	S19	W08	.460	12512	6.2	14D	-N	3	C		.72				F
606 CANR	06	1820E	1821D		S17	E09	.436	12520	7.4	1D	--F		V	1821	.83	.80			2
GRP49607	06	2038	2104	2049	S17	E19	.510	12513	8.3	26	--F				.31				2 1 1 2
HUAN	06	2038	2104	2049	S17	E19	.510	12513	8.3	26	-F	1	C	2049	.31	.36			E
PALE	06	2102E	2112	2103	S18	E20	.531	12513	8.4	10D	-F	3	C		.63				F
	06	2223	2230	NO FLARE PATROL															
	06	2240	2249	NO FLARE PATROL															
GRP49608	07	0002	0018	0007	S18	W09	.450	12512	6.3	16	--F				.59				2 2 2 4
PALE	07	0001	0016	0004	S19	W09	.465	12512	6.3	15	-N	3	C		.55				F
MANI	07	0003	0020	0010	S17	W09	.436	12512	6.3	17	-F	2		0010	.62	.68			F
GRF49609	07	0210	0350	0213	S19	W43	.764	12507	3.9	100	-N				.83				3 2 2 4
CRON	07	0207	0233	0212	S18	W43	.759	12507	3.9	26	-N		V		1.24				
KODA	07	0211E	0350	0305	S20	W43	.770	12507	3.9	93D	1N		P	0219	2.89	2.89	1.48		E
MANI	07	0212	0226D	0214	S20	W42	.760	12507	3.9	16D	-N	2		0214	.41	.63			
GRP49610	07	0427	0453	0434	N24	W49	.763	12508	3.5	26	--N				.51				3 3 3 5
TEHR	07	0426	0511	0439	N23	W50	.771	12508	3.4	45	-N	3	C		.45				F
ATHN	07	0426	0445	0429	N22	W49	.759	12508	3.5	13	-N	1	C		.66				F
CRON	07	0428	0444		N26	W49	.768	12508	3.5	16	-F		V		.41				
15 STATIONS REPORTING GROUP 49614. 0 STATIONS OBSERVING AND NOT REPORTING.																			
GRF49614	07	1141	1342	1212	S18	W46	.787	12507	4.0	121	2B				5.42				12 10 10 15
TEHR	07	1136	1340D	1202	S17	W46	.783	12507	4.0	122D	2B	4	C		7.94				H S
RAMY	07	1139	1336	1159	S18	W45	.778	12507	4.1	117	2B	4	C		4.92				U H
MEUD	07	1140	1215D		S18	W47	.797	12507	4.0	35D	2N		C	1203	4.13	6.50			U
CATA	07	1140	1310	1200	S17	W46	.783	12507	4.0	90	2B	3		1200	4.92	7.91		(316)	
MCMA	07	1140	1430	1208	S17	W47	.792	12507	4.0	170	2B		C	1208	4.13	7.00			FL
ATHN	07	1140E	1250D	1202	S18	W46	.787	12507	4.0	70D	2B	3	V		5.61				U Z
ZURI	07	1140	1225D	1205	S19	W47	.801	12507	4.0	45D	1B		P	1205	3.58	6.00			
UPIC	07	1144E	1400	1211U	S17	W46	.783	12507	4.0	136D	2B		P	1211	6.52				U
KIEV	07	1150	1229D	1159	S16	W46	.779	12507	4.0	39D	2B		P	1159	5.16			80	EI
KHAR	07	1155E	1340D		S17	W48	.802	12507	3.9	105D	3B		C	1303	8.77	14.80			EHVWZ
HERS	07	1210E	1330	1210E	S18	W45	.778	12507	4.1	80D	2B		P	1211	7.28	11.20		84	EH
LOCA	07	1322E	1440	1322	S18	W46	.787	12507	4.1	78D	2N		P	1322	3.99	6.20			

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OBSERVATORY	OBSERVED UT				LOCATION					DURATION	IMPORTANCE	OBS.		MEASUREMENTS					REMARKS
	DATE SEP	START	END	MAX. PHASE	APPROX. LAT.	APPROX. LONG. DIST.	CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY	MIN.		COND.	TYPE	TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hα	MAX. INT. %	
49614	07	1135	1336	1145	S18	W46	.787	12507	4.0	121	*-N				1.86				3 3 3 12
CANR	07	1130	1142D	1142	S18	W46	.787	12507	4.0	12D	1B		V	1142	2.78	3.80			
RAMY	07	1139	1336	1151	S18	W45	.778	12507	4.1	117	-N	4	C		1.49				U H
ATHN	07	1140E	12500	1143	S18	W46	.787	12507	4.0	70D	-N	3	V		1.32				U Z
49614	07	1206	1335	(1225)	S16	W47	.788	12507	4.0	83	*3B				12.92				2 2 2 13
WEND	07	1206E	1337		S16	W46	.779	12507	4.1	91D	3B		P		18.56				
ARCE	07	1225E	1332		S16	W47	.788	12507	4.0	67D	3B		C	1225	7.28	12.10			BTF
GRP49613	07	1714	1739	1719	S16	E07	.411	12513	8.2	25	--F				.73				2 2 2 6
PALE	07	1712E	1738	1714U	S17	E07	.426	12513	8.2	26D	-F	2	V		.83				F
MCMA	07	1715	1740	1723	S14	E07	.380	12513	8.2	25	-F		C	1723	.62	.60			E
619 PALE	07	1904E	1912D	1905	S11	W78	.984	12516	1.9	9D	--N	2	C		.27				3
620 RAMY	07	1916	1926D	1925	N23	W57	.837	12508	3.5	10D	--N	4	C		.46				DE 2
	07	1930	1936	NO FLARE PATROL															
621 PALE	07	1935E	1947	1936	N26	W56	.833	12508	3.6	12D	--F	2	C		.63				F 3
622 PALE	07	2045	2057	2047	S12	W49	.792	12507	4.2	12	--F	2	C		.27				F 2
623 PALE	07	2106	2115	2108	S13	E08	.371	12513	8.5	9	--F	2	V		.41				F 2
625 PALE	07	2250E	2256D	2254	N24	W58	.847	12508	3.6	6D	--F	3	V		.62				F 3
GRP49626	07	2250	2300	2253	S17	W51	.826	12507	4.1	10	--N				.31				2 2 2 3
PALE	07	2250E	2256D	2254	S18	W50	.823	12507	4.2	6D	-N	3	V		.31				
MANI	07	2251E	2300	2251U	S15	W51	.821	12507	4.1	9D	-N	1		2251	.31	.50			
627 PALE	07	2356	0021	0000	S16	W50	.816	12507	4.2	25	--F	3	V		.52				U F 3
628 PALE	08	0210	0220D	0215	N14	W66	.907	12508	3.1	10D	--F	2	C		.72				F 3
GRP49629	08	0237	0250	0241	S15	W52	.830	12507	4.2	13	-B				1.04				4 4 4 4
MANI	08	0235	0255	0240	S15	W52	.830	12507	4.2	20	1B	2		0240	1.96	3.38			H
CRON	08	0238	0248	0240	S14	W52	.827	12507	4.2	10	-N		V	0240	.93				
TEHR	08	0238E	0248	0241	S16	W50	.816	12507	4.4	10D	-B	2	V		.83				DE H
PALE	08	0242E	0250	0242	S13	W52	.824	12507	4.2	6D	-B	3	C		.45				F
630 PALE	08	0245	0258	0252	N15	W66	.906	12508	3.2	13	--F	2	C		.27				4
GRP49635	08	0743	0801	0749	S16	W56	.867	12507	4.1	18	--F				.56				3 3 2 10
ABST	08	0736	0806D	0748	S16	W57	.875	12507	4.0	28D	-F		P	0748	.90	1.80		65	D
ISTA	08	0745	0800		S16	W56	.867	12507	4.1	15	-F								D
MONT	08	0746	0756	0749	S16	W55	.859	12507	4.2	10	-N		C	0749	.21				
GRP49636	08	0848	0900	0849	S16	W56	.867	12507	4.2	12	--N				.39				3 3 3 9
MONT	08	0848	0854	0849	S16	W55	.859	12507	4.2	6	-N		C	0849	.21				
ARCE	08	0848	0910	0848	S16	W58	.882	12507	4.0	22	-N		C	0848	.55	1.20			
MEUD	08	0849	0855	0849	S17	W56	.870	12507	4.2	6	-F		C	0849	.41	.80			D
6 STATIONS REPORTING GROUP 49639. 3 STATIONS OBSERVING AND NOT REPORTING.																			
GRP49639	08	1216	1258	1219	S11	W03	.317	12513	8.3	42	1N				2.86				4 4 4 7
TEHR	08	1215E	1252	1217	S11	W04	.320	12513	8.2	37D	-N	3	V		1.65				F
CATA	08	1215	1305	1220	S10	W05	.308	12513	8.1	50	-B	3		1220	1.44	1.52		(204)	
WEND	08	1215	1256		S11	W03	.317	12513	8.3	41	2N		P		6.19				
CANR	08	1217	1220D	1220	S10	E01	.297	12513	8.6	3D	1N		V		2.17				
49639	08	1237	1300	(1239)	S11	W04	.320	12513	8.2	23	*-F				1.55				2 2 2 9
MCMA	08	1237E	1300D		S10	W09	.308	12513	8.2	23D	-F		P	1237	1.03	1.10			E
MEUD	08	1239E	1241D		S11	W02	.315	12513	8.4	2D	1F		C	1240	2.06	2.10			
640 RAMY	08	1818E	1831	1818U	N25	W73	.949	12508	3.3	13D	--F	3	V		.21				DE 1
641 RAMY	08	1830	1840	1831	N17	W37	.607	12510	6.0	10	--F	3	V		.21				DE 1
642 PALE	08	1944E	1952	1946U	S11	W07	.334	12513	8.3	8D	--F	3	V		.62				F 2
643 PALE	08	2029	2035D	2033	N27	W75	.958	12508	3.2	6D	--F	2	C		.27				2
644 PALE	08	2202E	2213D	2205U	N16	W74	.955	12508	3.4	11D	-N	2	V		.41				DE 3
645 MANI	08	2230	2245	2234	S11	W10	.355	12513	8.2	15	-N	1		2234	.93	.99			F 2
646 PALE	08	2324	2345	2327	S11	W11	.363	12513	8.1	21	--F	1	C		.45				F 4

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OBSERVATORY	OBSERVED UT				LOCATION						DURATION	IMPORTANCE	OBS.		MEASUREMENTS					REMARKS
	DATE SEP	START	END	MAX. PHASE	APPROX. LAT.	APPROX. MER. DIST.	CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY		MIN.		COND.	TYPE	TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Mg	MAX. INT. %	
GRF49650	09	0500	0522	0510	S11	W15	.400	12513	8.1		22	--N				.83				3 3 3 6
MANI	09	0500E	0515D	0508U	S11	W14	.390	12513	8.2		15D	-N	2		0508	1.03	1.12			F
TEHR	09	0507E	0524	0511	S12	W15	.412	12513	8.1		17D	-N	3	C		.64				F
CRON	09	0510E	0519		S11	W15	.400	12513	8.1		9D	-N		V		.83				
GRP49651	09	0635	0649	0637	S17	W72	.967	12507	3.9		14	--N				.33				4 3 2 7
CATA	09	0635	0645	0635	S18	W68	.949	12507	4.2		10	-N	3		0635	.29			(155)	
TEHR	09	0636	0648	0638	S20	W71	.966	12507	3.9		12	-N	2	C		.36				F
ISTA	09	0638	0647		S16	W70	.957	12507	4.0		9	-F								D
CRON	09	0644	0656		S15	W78	.986	12507	3.4		12	-N		V		.41				
GRP49652	09	0816	0833	0820	S10	W17	.409	12513	8.1		15	--N				.50				6 6 4 7
TEHR	09	0817	0832	0819	S11	W17	.421	12513	8.1		15	-N	2	C		.28				F
WEND	09	0818	0833		S10	W18	.421	12513	8.0		15	-N								
CRON	09	0819	0848		S10	W15	.388	12513	8.2		29	-N		V		.41				
CATA	09	0820E	0825	0820	S09	W17	.396	12513	8.1		5D	-B	1		0820	.58	.63		(209)	
ISTA	09	0820E	0825		S10	W17	.409	12513	8.1		5D	-F								
ARCE	09	0825E	0835D		S10	W17	.409	12513	8.1		10D	-F		C	0825	.71	.80			
GRP49656	09	1018	1033	1024	S10	W19	.432	12513	8.0		15	--N				.37				2 2 2 4
CATA	09	1015	1035	1025	S10	W18	.421	12513	8.1		20	-N	3		1025	.40	.44		(166)	
TEHR	09	1020	1031	1022	S10	W20	.444	12513	7.9		11	-N	3	V		.33				F
GRP49659	09	1526	1542	1532	S09	W36	.634	12520	6.9		16	--B				.58				2 2 1 4
CATA	09	1525E	1532D	1532	S08	W37	.642	12520	6.9		7D	-B	3		1532	.58	.75		(214)	
WEND	09	1526	1542		S09	W34	.610	12520	7.1		16	-N								
659 RAMY	09	1558	1611	1600	N23	W85	.992	12508	3.3		13	-N	4	C						DE 3
GRP49660	09	1843	1907	1847	S19	W80	.993	12507	3.8		24	-F				.45				2 2 1 3
PALE	09	1843E	1850	1845U	S19	W77	.985	12507	4.0		7D	-F	1	C		.45				
RAMY	09	1843	1924	1848	S19	W83	.997	12507	3.6		41	1N	3	C						DE
GRP49661	09	2053	2111	2055	S19	W83	.997	12507	3.6		18	--F				1.08				2 2 1 3
PALE	09	2051E	2103D	2053U	S19	W85	.999	12507	3.5		12D	-F	1	C		.45				
PALE	09	2053E	2109	2055U	S17	W79	.990	12507	3.9		16D	-F	1	C		.63				
RAMY	09	2058E	2112		S19	W83	.997	12507	3.6		14D	-N	3	C						DE
	09	2148	2204	NO FLARE PATROL																
GRP49664	09	2204	2210	2207	S11	W38	.669	12520	7.1		6	--F				1.04				2 2 2 2
PALE	09	2204E	2205	2204U	S11	W37	.657	12520	7.1		1D	-F	2	V		1.55				F
MANI	09	2205E	2215	2210	S11	W39	.681	12520	7.0		10D	-F	1		2210	.52	.70			F
665 MANI	09	2215E	2225D	2215U	N21	W68	.997	12508	3.3		10D	--F	1		2215	.52	1.54			F 1
GRP49663	10	0223	0251	0232	S11	W41	.703	12520	7.0		28	-N				1.02				3 3 3 4
PALE	10	0223	0253	0230	S10	W41	.699	12520	7.0		30	-N	2	C		.72				F
MANI	10	0223	0250	0234	S11	W41	.703	12520	7.0		27	-N	2		0234	.93	1.29			F
CRON	10	0224	0251		S11	W40	.692	12520	7.1		27	-B				1.40				
4 STATIONS REPORTING GROUP 49670. 1 STATIONS OBSERVING AND NOT REPORTING.																				
GRP49670	10	0227	0255	0233	S17	W45	.773	12512	6.7		28	-N				.66				2 2 2 4
CRON	10	0225	0235	0230	S17	W45	.773	12512	6.7		10	-N				.60				
PALE	10	0229	0315D	0235U	S17	W45	.773	12512	6.7		46D	-N	2	C		.72				F
49670	10	0234	0323	0244	S18	W44	.769	12512	6.8		43	*-F				.77				3 2 2 4
PALE	10	0229	0315D	0243U	S17	W45	.773	12512	6.7		46D	-F	2	C		.91				F
MANI	10	0239	0323D	0244	S19	W43	.764	12512	6.9		44D	-N	2		0244	.62	.95			F
TEHR	10	0300E	0310D	0300U	S18	W43	.759	12512	6.9		10D	-N	2	V		.21				F
GRP49671	10	0256	0323	0300	S10	W41	.699	12520	7.0		27	-N				1.38				3 3 3 4
PALE	10	0255	0315D	0259U	S10	W42	.710	12520	7.0		20D	-B	2	C		1.34				F
MANI	10	0256	0323D	0301	S11	W42	.715	12520	7.0		27D	1N	2		0301	2.27	3.19			F
TEHR	10	0300E	0310D	0300U	S09	W39	.671	12520	7.2		10D	-N	2	V		.52				F
GRP49674	10	0825	0837	0827	S10	W43	.721	12520	7.1		12	--N				.52				4 4 4 7
TEHR	10	0821	0838	0826	S10	W43	.721	12520	7.1		17	-N	4	V		.50				F Z
ARCE	10	0825E	0840D		S09	W44	.726	12520	7.1		15D	-N		C	0830	.68	1.00			
ATHN	10	0826E	0835	0828	S12	W41	.708	12520	7.3		9D	-N	2	V		.50				DE
CRON	10	0826	0833		S10	W43	.721	12520	7.1		7	-F				.40				
GRP49676	10	1140	1216	1149	S10	W46	.754	12520	7.0		36	--F				.39				4 4 4 7
MCMA	10	1136	1215	1155	S09	W47	.761	12520	7.0		39	-F		C	1155	.31	.50			E
CANR	10	1140	1448D	1148	S11	W44	.737	12520	7.2		188D	-N		V	1448	.41	.60			
ATHN	10	1143	1217	1145	S12	W45	.751	12520	7.1		34	-F	2	C		.50				DE
ARCE	10	1145E	1210D		S09	W46	.750	12520	7.0		25D	-N		C	1154	.35	.50			

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	DATE SEP	START	END	MAX. PHASE	APPROX. LAT.	APPROX. MER. DIST.	CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY	MIN.		COND.	TYPE	TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hα	MAX. INT. %	
GRP49676	10	1211	1226	1214	S10	W32	.591	12513	8.1	15	--N				.53				2 2 2 7
ATHN	10	1209	1222	1213	S10	W31	.579	12513	8.2	13	-N	2	C		.33				DE
MCMA	10	1212	1230	1214	S10	W32	.591	12513	8.1	18	-N		C	1214	.72	.90			E
681 RAMY	10	1610E	16290		S18	W90	1.001	12507	3.9	190	-N	2	C						4
GRP49682	10	1843	1906	1845	S11	W32	.596	12513	8.4	25	--F				.57				2 2 2 3
MCMA	10	1843	1912	1845	S11	W32	.596	12513	8.4	29	-F		C	1845	.41	.50			E
PALE	10	1844E	1904	1845	S10	W32	.591	12513	8.4	20D	-N	2	C		.72				F
GRP49683	10	2014	2037	2020	S11	W49	.789	12520	7.2	23	--F				.31				3 3 3 3
PALE	10	2014	2036	2017	S11	W49	.789	12520	7.2	24	-F	2	C		.36				
MCMA	10	2014	2035	2022	S10	W49	.785	12520	7.2	21	-N		C	2022	.36	.60			D
HUAN	10	2016E	2033D		S13	W48	.786	12520	7.2	17D	-F	1	P	2021	.21	.33			CD
GRP49684	10	2024	2047	2027	S10	W34	.616	12513	8.3	23	--F				.37				3 3 3 3
PALE	10	2023	2044	2027	S10	W33	.603	12513	8.4	21	-F	2	C		.55				F
MCMA	10	2024	2050	2027	S10	W34	.616	12513	8.3	26	-F		C	2027	.36	.40			D
HUAN	10	2024	2033D		S11	W36	.646	12513	8.1	9D	-F	1	P	2030	.21	.26			D
	10	2110	2111	NO FLARE PATROL															
	10	2229	2244	NO FLARE PATROL															
	10	2300	2305	NO FLARE PATROL															
GRP49686	11	0655	0736	0703	S11	W55	.845	12520	7.2	41	-N				1.93				9 8 7 9
ARCE	11	0654E	0745D		S10	W56	.851	12520	7.1	51D	-N		C	0705	.84	1.60			
ATHN	11	0654	0729	0659	S12	W56	.856	12520	7.1	35	-N	3	C		1.49				F
CKON	11	0654E	0734		S10	W54	.834	12520	7.2	40D	-N		V		1.03				
TEHR	11	0655	0740	0704	S11	W53	.827	12520	7.3	45	-B	3	V		.99				Z U
CATA	11	0655	0735	0705	S12	W55	.848	12520	7.2	40	1E	1		0705	2.60	4.91		(219)	
AbST	11	0655	0720	0701	S12	W58	.873	12520	6.9	25	2N		C	0701	4.50	9.30		98	E
ISTA	11	0700E	0743D		S10	W55	.843	12520	7.2	43D	-N								
MONT	11	0702E	0744	0705	S11	W53	.827	12520	7.3	42D	-N		C	0705	2.06				E
CANR	11	0720	0747		S11	W55	.845	12520	7.2	27	-N		V	0721	.83	1.36			
GRP49687	11	0756	0826	0803	S11	W41	.703	12513	8.3	30	-N				1.27				10 10 9 10
ATHN	11	0724	0738	0729	S12	W40	.697	12513	8.3	14	-F	3	C		.33				DE
ARCE	11	0725	0815	0810	S11	W42	.715	12513	8.2	50	-N		C	0810	.93	1.40			F
ISTA	11	0727	0824	0804	S11	W39	.681	12513	8.4	57	-N								
MONT	11	0752	0838	0803	S11	W40	.692	12513	8.3	46	-N		C	0803	2.27				
CANR	11	0753	0835		S13	W41	.713	12513	8.3	42	-F		V		.62	1.00			
ATHN	11	0753	0819	0800	S11	W41	.703	12513	8.3	26	-N	3	C		.99				F
TEHR	11	0756	0824	0759	S11	W39	.681	12513	8.4	28	-N	3	V		.66				DE
MEUD	11	0758	0820	0802	S12	W41	.708	12513	8.3	22	-N		C	0802	1.24	1.70			E
ABST	11	0758	0827D	0803	S12	W41	.708	12513	8.3	23D	1N		P	0803	2.43	3.50		89	E
CATA	11	0800	0835	0805	S12	W41	.708	12513	8.3	35	1B	3		0805	1.44	2.05		(204)	
CKON	11	0800	0821		S10	W41	.699	12513	8.3	21	-F		V		.88				
GRP49690	11	1445	1532	1451	S10	W46	.754	12513	8.2	47	--F				.49				2 2 2 6
RAMY	11	1445	1513	1451	S10	W45	.743	12513	8.2	28	-F	3	C		.46				DE
ARCE	11	1445E	1550		S09	W47	.761	12513	8.1	65D	-F		C	1451	.52	.80			
GRP49691	11	1553	1559	1555	S12	W45	.751	12513	8.3	6	--N				.46				3 3 3 5
ARCE	11	1550	1556	1552	S11	W46	.758	12513	8.2	6	-N		C	1552	.48	.70			
RAMY	11	1552	1603	1555	S12	W44	.741	12513	8.4	11	-N	3	C		.28				DE
CANR	11	1557	1557D		S13	W45	.756	12513	8.3		-F		V	1557	.62				
GRP49693	11	2110	2119	2113	S10	W50	.795	12513	8.1	9	--N				.38				2 2 2 2
PALE	11	2110	2119	2113U	S10	W49	.785	12513	8.2	9	-N	3	C		.45				DE
MCMA	11	2110	2118	2112	S10	W50	.795	12513	8.1	8	-N		C	2112	.31	.50			E
	11	2207	2233	NO FLARE PATROL															
	11	2235	2237	NO FLARE PATROL															
694 TEHR	12	0420	0433	0424	S12	W64	.917	12520	7.4	13	--F	2	C		.17				F 3
GRP49696	12	1049	1105	1052	S12	W60	.886	12513	8.0	16	--F				.27				3 3 3 7
ARCE	12	1046	1125D	1052	S11	W61	.894	12513	7.9	39D	-F		C	1052	.29	.60			H
MEUD	12	1049	1054	1051	S13	W59	.883	12513	8.0	5	-F		C	1051	.31	.60			D
MONT	12	1051	1055	1053	S12	W61	.896	12513	7.9	4	-N		C	1053	.21				D
GRP49698	12	1617	1624	1619	S13	W58	.875	12513	8.3	7	--F				.37				2 2 1 5
RAMY	12	1616	1623	1616	S15	W57	.872	12513	8.4	7	-F	4	C		.37				DE
HUAN	12	1617	1624	1619	S11	W56	.871	12513	8.3	7	-F	1	C	1619					
699 RAMY	12	1619E	1622D		S10	W78	.983	12520	6.9	3D	--F	3	C						DE 3

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	DATE SEP	START	END	MAX. PHASE	APPROX. LAT.	APPROX. MER. DIST.	CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY	MIN.				TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hg	MAX. INT. %	
	12	1651	1653	NO FLARE PATROL															
	12	2039	2040	NO FLARE PATROL															
	12	2126	2155	NO FLARE PATROL															
	12	2235	2236	NO FLARE PATROL															
700 CRON	12	2341E	2349		S12	W74	.970	12520	7.4	08	-N		V						2
701 TEHR	13	0457	0522	0504	S13	W66	.931	12513	8.3	25	--F	2	C		.28				F 4
GRP49705	13	0933	0939	0935	S12	W68	.941	12513	8.3	6	-N				.62				3 3 3 7
TEHR	13	0932E	0940	0934	S13	W66	.931	12513	8.4	10	-B	3	C		.55				F
MONT	13	0933	0937	0935	S12	W70	.952	12513	8.1	4	-N		C	0935	.72				
CATA	13	0935	0940	0935	S12	W67	.936	12513	8.4	5	-N	1		0935	.58			(166)	
GRP49706	13	1042	1052	1044	S12	W71	.957	12513	8.1	10	-N				.45				2 2 1 7
TEHR	13	1041	1052	1044	S13	W68	.943	12513	8.3	11	-N	3	C		.45				F
WEND	13	1042	1051		S11	W73	.965	12513	8.0	9	-N								
707 RAMY	13	1231	1241	1233	S12	W71	.957	12513	8.2	10	-N	3	C						DE 3
708 RAMY	13	1908	1920	1911	S08	W76	.982	12513	7.9	12	--F	2	C						DE 3
	13	2154	2219	NO FLARE PATROL															
	13	2223	2229	NO FLARE PATROL															
GRP49709	14	0225	0251	0231	S15	W85	.999	12513	7.7	26	-N				.88				3 2 2 5
MANI	14	0225	0256	0228	S13	W64	.997	12513	7.8	33	-N	2		0228	.72	2.02			F
PALE	14	0226E	0244	0233U	S16	W85	.999	12513	7.7	18C	1N	2	V		1.03				F
CRON	14	0228	0335C	0335	S10	W76	.983	12513	8.3	67D	-N		V	0335	.83				
GRP49710	14	0304	0322	0307	S11	W61	.992	12513	8.1	18	-B				1.12				3 3 3 6
CRON	14	0228	0331	0307	S10	W78	.983	12513	8.3	63	-N		V	0307	.83				
TEHR	14	0304	0315C	0307	S13	W82	.994	12513	8.0	11C	-B	3	C		.55				F
MANI	14	0305	0315	0307	S12	W65	.996	12513	7.8	10	1B	2		0307	1.55	4.42			F
TEHR	14	0305E	0319	0306U	S12	W78	.984	12513	8.3	14D	-B	3	V		.99				F
GRP49714	15	2243	2253	2245	S08	E54	.828	12522	20.0	10	-N				.98				2 2 2 5
WORO	15	2243	2251	2244	S07	E54	.826	12522	20.0	8	-B		C	2244	1.02	1.70		62	DFJ
PALE	15	2244E	2254D	2245U	S09	E53	.822	12522	19.9	10D	-F	3	V		.93				
	16	1820	2127	NO FLARE PATROL															
GRP49719	17	0150	0202	0152	S10	E37	.652	12522	19.9	12	--F				.55				2 2 1 6
CRON	17	0150	0202		S10	E37	.652	12522	19.9	12	-F		V						
PALE	17	0151E	0152D	0152U	S10	E37	.652	12522	19.9	1D	-F	2	C		.55				F
	17	2146	2226	NO FLARE PATROL															
	19	1940	2113	NO FLARE PATROL															
	20	1817	1819	NO FLARE PATROL															
	20	1832	1834	NO FLARE PATROL															
	20	1922	1930	NO FLARE PATROL															
	20	2128	2225	NO FLARE PATROL															
GRP49723	21	1035	1102	1040	N12	E67	.914	12535	26.5	27	--F				.71				4 4 4 7
RAMY	21	1034	1055	1040U	N12	E69	.928	12535	26.6	21	-F	2	C		.65				DE
CATA	21	1035	1115	1040	N12	E65	.900	12535	26.3	40	-F	1		1040	.87	1.99		(141)	
CANR	21	1035	1055	1038	N13	E63	.884	12535	26.2	20	-N		V	1038	.83	1.60			
ATHN	21	1041E	1041D	1041U	N12	E71	.940	12535	26.8		-F	4	V		.50				DE
GRP49724	21	1342	1358	1345	N14	E68	.921	12535	26.7	16	--F				.30				2 2 2 4
RAMY	21	1342	1356	1345	N13	E68	.921	12535	26.7	14	-F	3	C		.37				DE
ARJE	21	1349E	1359D		N15	E67	.914	12535	26.6	10D	-N		C	1349	.22	.50			
730 HUAN	21	1746	1749D	1747	N13	E68	.921	12535	26.8	3D	--F	1	P	1747	.21				D 2
	21	1755	1804	NO FLARE PATROL															
	21	1815	1908	NO FLARE PATROL															
	21	1924	2042	NO FLARE PATROL															

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	DATE SEP	START	END	MAX. PHASE	APPROX. LAT.	APPROX. MER. DIST.	CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY	MIN.		COND.	TYPE	TIME — UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hα	MAX. INT. %	
	21	2209	2226	NO FLARE PATROL															
737 RAMY	22	2109	2121	2113	N16	E50	.762	12535	26.6	12	--F	3	C		.31				1
GRP49733	23	0937	0949	0941	N04	E36	.587	12532	26.1	12	--N				.74				3 3 3 5
ATHN	23	0935	0947	0941	N04	E37	.601	12532	26.2	12	-N	2	C		.50				DE
KHAR	23	0937E	09490	0943	N03	E35	.575	12532	26.0	12D	-N		C	0943	1.13	1.40			D
CATA	23	0940	0950	0940	N04	E35	.573	12532	26.0	10	-F	1		0940	.58	.70		(141)	
GRP49742	23	1509	1524	1515	N05	E33	.543	12532	26.1	15	--F				.24				2 2 2 4
RAMY	23	1503	15200	1512	N05	E33	.543	12532	26.1	17D	-F	3	C		.15				DE
ATHN	23	1514	15240	1517	N04	E33	.544	12532	26.1	10D	-F	3	C		.33				DE
GRP49743	23	1748	1816	1754	S14	E32	.617	12534	26.1	28	-N				1.01				3 3 3 3
CANR	23	1747	17510	1751	S15	E35	.657	12534	26.4	4D	-N		V		1.55				
RAMY	23	1748	18010	1750	S14	E30	.594	12534	26.0	13D	-N	3	C		.56				DE
PALE	23	1759E	1816	1800U	S12	E32	.603	12534	26.1	17D	-N	3	V		.93				F
744 PALE	23	1828	1841	1830	N12	E40	.639	12535	26.8	13	--N	3	V		.52				U 2
745 PALE	23	1910E	1917	1912U	N04	E37	.601	12535	26.6	7D	--F	3	V		.31				2
GRP49746	24	0242	0300	0245	N22	E90	.993	12537	30.9	18	1N				.78				2 2 2 4
MITK	24	0242	0303	0244	N22	E90	.999	12537	30.9	21	1N		C	0244	.93				
PALE	24	0242	0256	0246	N22	E90	.999	12537	30.9	14	1N	2	C		.63				
747 PALE	24	0245	0251	0248	N19	W35	.589	12525	21.5	6	--F	2	C		.36				4
GRP49748	24	0447	0503	0452	N11	E34	.556	12535	26.7	16	--N				.28				1 1 1 4
TEHR	24	0447	05030	0452U	N12	E33	.543	12535	26.7	16D	-N	2	C		.28				F
TEHR	24	0448E	0457	0451	N10	E35	.570	12535	26.8	9D	-F	4	V		.25				DE
GRP49752	24	0640	0648	0642	N13	E39	.627	12535	27.2	8	--N				.75				2 2 2 8
ATHN	24	0639	0645	0641	N13	E39	.627	12535	27.2	6	-N	3	C		.50				F
ABST	24	0641	0650	0642	N13	E39	.627	12535	27.2	9	-N		C	0642	.99	1.20		69	EV
GRP49753	24	0655	0711	0657	N14	E35	.575	12535	26.9	16	--8				.51				5 4 3 8
ABST	24	0655	0716	0659	N14	E32	.533	12535	26.7	21	-8		C	0659	.90	1.00		92	DK
ATHN	24	0655E	0712	0655U	N13	E37	.600	12535	27.1	17D	-8	4	V		.33				DE
ISTA	24	0655	0705		N14	E33	.547	12535	26.8	10	-N								E
CRCN	24	0655E	0709		N14	E36	.588	12535	27.0	14D	-N		V		.31				
CATA	24	0715E	0720	0715	N13	E31	.516	12535	26.6	5D	-N	1		0715	.29	.33		(178)	
GRP49754	24	1754	1830	1803	N04	W05	.101	12530	24.4	36	-N				1.09				2 2 2 2
MCMA	24	1754	1830	1759	N03	W06	.125	12530	24.3	36	-N		C	1759	.62	.60			E
CANR	24	1758E	18100	1806	N05	W04	.078	12530	24.4	12D	-N		V	1806	1.55	1.50			
	25	0446	0500	NO FLARE PATROL															
761 ISTA	25	0653	0701		S12	E06	.340	12534	25.7	8	--F								D 2
GRP49762	25	1716	1739	1718	N05	W16	.276	12530	24.5	23	--F				.34				2 2 2 4
MCMA	25	1716	1740	1720	N05	W15	.260	12530	24.6	24	-F		C	1720	.31	.30			E
PALE	25	1716E	1738	1716U	N04	W16	.279	12530	24.5	22D	-N	4	V		.36				F
765 PALE	25	1905E	1920	1910U	N13	E12	.229	12535	26.7	15D	--F	3	C		.55				F 3
766 PALE	25	2025E	20300		N06	W16	.274	12530	24.7	5D	--F	2	C						F 2
	25	2230	2319	NO FLARE PATROL															
	25	2320	2328	NO FLARE PATROL															
768 PALE	26	0353	0358	0355	N05	E04	.077	12532	26.5	5	--F	2	V		.62				F 3
GRP49769	26	0635	0700	0639	N05	W23	.390	12530	24.5	25	-8				.90				2 2 2 4
MITK	26	0635	0700	0638	N05	W23	.390	12530	24.5	25	-8		C	0638	.93	1.00			D
CATA	26	0640E	0645D	0640	N04	W23	.392	12530	24.6	5D	-N	1		0640	.87	.94		(200)	
770 MITK	26	0644	0705	0652	N12	E04	.112	12535	26.6	21	-N		C	0652	1.03	1.00			2
772 PALE	26	1905E	1920	1910U	N13	E12	.230	12536	27.7	15D	--F	3	C		.55				F 2
773 PALE	26	2000	2010	2004	S16	E78	.986	12542	1.7	10	--N	2	C		.19				2
774 PALE	26	2025E	20300		N06	W16	.274	12532	25.7	5D	--F	2	C						F 2
775 PALE	26	2044	2051	2047	N07	W36	.584	12530	24.2	7	--N	2	C		.19				2

SOLAR FLARES
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OBSERVATORY	OBSERVED UT				LOCATION					DURATION	IMPORTANCE	OBS.		MEASUREMENTS					REMARKS
	DATE SEP	START	END	MAX. PHASE	APPROX. LAT.	APPROX. MER. DIST.	CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY	MIN.		COND.	TYPE	TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Ma	MAX. INT. %	
776 PALE	26	2108	2132	2113	N16	E03	.166	12535	27.1	24	--N	3	C		.63				F 1
GKP49777	27	0013	0027	0020	N17	E01	.176	12535	27.1	14	--N				.53				3 3 3 4
PALE	27	0012	00250	0022	N17	E01	.176	12535	27.1	130	-N	2	C		.55				F
MITK	27	0013	00160	0015	N17	E01	.176	12535	27.1	30	-F		C	0015	.52	.50			D
MANI	27	0022E	0027	0022U	N16	E01	.159	12535	27.1	50	-N	1		0022	.52	.52			F
778 MANI	27	0303	0315	0307	N17	W08	.221	12535	26.5	12	--F	2		0307	.31	.32			2
GRP49779	27	0851	0900	0853	N12	W13	.238	12535	26.4	9	--F				.99				4 4 4 6
TEHR	27	0851	0858	0851	N14	W14	.267	12535	26.3	7	-N	2	C		.28				DE
CRON	27	0851	0900	0855	N12	W12	.223	12535	26.5	9	-N		V		.52				
ABST	27	0851	0900	0852	N11	W13	.233	12535	26.4	9	1F		C	0852	2.43	2.50		60	EV
CANR	27	0855E	09000		N12	W12	.223	12535	26.5	50	-F		V	0855	.72	.70			
GRP49780	27	1108	1134	1111	S15	E48	.792	12540	1.1	26	1N				1.71				4 4 4 5
CANR	27	1107	1128	1110	S13	E48	.784	12540	31.1	21	-F		V	1110	1.24	1.80			
ABST	27	1107	1142	1111	S16	E48	.796	12540	31.1	35	2N		C	1111	3.33	5.50		72	EU
TEHR	27	1108	1136	1111	S16	E48	.796	12540	31.1	28	-N	2	C		1.09				DE
CATA	27	1110	11300	1110	S15	E47	.782	12540	31.0	200	-N	1		1110	1.16	1.86		(162)	
GRP49781	27	1156	1206	1158	S14	E71	.953	12542	2.8	10	-N				.40				2 2 2 5
TEHR	27	1155	1207	1156	S15	E72	.964	12542	1.9	12	-N	2	C		.28				F
CANR	27	1157	1204	1159	S12	E69	.946	12542	1.7	7	-N		V	1159	.52	1.20			
782 RAMY	27	1339	1348	1343	S11	E90	1.000	12545	3.3	9	--F	2	C						3
	27	1902	1903	NO FLARE PATROL															
	27	2108	2147	NO FLARE PATROL															
	27	2152	2230	NO FLARE PATROL															
783 VORO	27	2240	2251	2244	N10	W19	.326	12535	26.5	11	-8		C	2244	1.85	1.89		64	EJL 1
784 ABST	28	0627	0639	0632	N11	W65	.901	12530	23.4	12	--F		C	0632	.54	1.20		52	DG 4
791 PALE	28	1723	1733	1726	N07	W58	.844	12530	24.4	10	--F	2	C		.45				F 3
792 PALE	28	1910	1916	1911	S16	E30	.608	12540	31.0	6	--F	2	C		.36				F 1
793 PALE	28	1940	1947	1941	N17	W29	.501	12535	26.6	7	--F	2	C		.19				2
	29	0250	0303	NO FLARE PATROL															
GRP49794	29	0447	0514	0451	N10	E57	.833	12543	3.5	27	1N				1.94				2 2 2 2
ABST	29	0447	0522	0450	N16	E57	.833	12543	2.5	35	2N		C	0450	2.88	5.30		740	F
TEHR	29	0448E	0505	0451	N15	E57	.833	12543	2.5	170	-N	3	V		.99				F
GRP49799	29	1555	1600	1600	N13	W39	.628	12535	26.7	5	-8				.87				1 1 1 3
CATA	29	1555	16000	1600	N13	W37	.601	12535	26.9	50	-8	1		1600	.87	1.08		(204)	
CATA	29	1555	16000	1600	N13	W42	.666	12535	26.5	50	-N	1		1600	.29	.38		(186)	
800 RAMY	29	1705E	1715	1707	N16	E51	.774	12543	2.5	100	--F	4	V		.50				DE 2
801 PALE	29	1852E	1859	1853U	N02	W50	.767	12532	26.0	70	--F	2	V		.41				DE 2
802 PALE	29	1852E	19040	1853U	N13	W42	.666	12535	26.6	120	--F	2	V		.93				F 2
803 PALE	29	1942	1953	1947	S16	E40	.716	12542	1.8	11	--N	3	C		.27				DE 2
804 PALE	29	2108	2119	2109	N15	W45	.705	12535	26.5	11	--F	3	C		.45				F 2
805 PALE	29	2357E	0012	2357U	N16	E47	.730	12543	2.5	150	--N	3	C		.32				F 2
GRP49806	30	0015	0050	0020	N15	W43	.681	12535	26.8	35	--N				.72				2 1 1 2
PALE	30	0015	0048	0020	N15	W42	.669	12535	26.9	33	-N	3	C		.72				F
CRON	30	0038	0052		N14	W43	.680	12535	26.8	14	-F		V		.72				
807 CRCN	30	0336E	0349		N16	E47	.730	12543	2.7	130	--F		V		.88				1
GRP49808	30	0604	0630	0606	N14	W47	.728	12535	26.7	26	-F				.97				2 2 2 3
ABST	30	0559	0650	0606	N14	W46	.716	12535	26.8	51	1N		C	0606	1.62	2.40			F
ABST	30	0601	0636	0608	N14	W51	.773	12535	26.4	35	-N		C	0608	.90	1.20			OZ
CRCN	30	0606	0624		N14	W45	.704	12535	26.9	18	-F		V		.31				
809 ABST	30	0558E	0620	0559	S12	E34	.625	12542	1.8	220	-F		P	0559	1.26	1.60			E 3

SOLAR FLARES
Confirmed

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OBSERVATORY	OBSERVED UT				LOCATION					DURATION	IMPORTANCE	OBS. COND.	OBS. TYPE	MEASUREMENTS					REMARKS
	DATE SEP	START	END	MAX. PHASE	APPROX. LAT.	APPROX. MER. DIST.	CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY	MIN.				TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hα	MAX. INT. %	
GRP49019	30	0536	0625	0604	N06	W53	.794	12535	26.3	49	-F				1.25				2 2 2 3
CRON	30	0536	0624		N08	W50	.761	12535	26.5	48	-F		V		1.24				
AGST	30	0558E	0626	0604	N07	W56	.825	12535	26.0	28D	1N		P	0604	1.26	2.10			D
GRP49016	30	1421	1435	1424	S13	E32	.608	12542	3.0	14	--F				.50				2 1 1 3
RAMY	30	1421E	1435	1424	S13	E33	.620	12542	2.1	14D	-F	4	V		.50				DE
CANR	30	1431E	1431C		S12	E30	.577	12542	1.9		-F		V		1.55				
GRP49017	30	1517	1544	1523	S13	E09	.370	12540	1.3	27	-N				1.31				2 2 2 3
CANR	30	1517	1550	1519	S14	E07	.373	12540	31.2	33	-N		V		1.96				
RAMY	30	1521E	1537	1527	S12	E10	.362	12540	31.4	16D	-N	4	V		.66				DE
	30	1946	2002	NO FLARE PATROL															
	30	2042	2112	NO FLARE PATROL															
	30	2116	2303	NO FLARE PATROL															
GRP49019	30	2316	2331	2321	S15	E01	.371	12540	1.0	13	-N				1.24				3 3 3 3
PALE	30	2317	2321	2321U	S15	E01	.371	12540	31.0	4	-B	3	V		.72				DE
CRON	30	2318E	2338	2323	S15	E01	.371	12540	31.0	20D	-N		V		.93				
MITK	30	2319	2333	2320	S14	E01	.355	12540	31.0	14	1N		C	2320	2.06	2.20			

"Remarks":

A = Eruptive prominence whose base is less than 90° from central meridian.
B = Probably the end of a more important flare.
C = Invisible 10 minutes before.
D = Brilliant point.
E = Two or more brilliant points.
F = Several eruptive centers.
G = No visible spots in the neighborhood.
H = Flare accompanied by a high speed dark filament.
I = Active region very extended.
J = Distinct variations of plage intensity before or after the flare.
K = Several intensity maxima.
L = Existing filaments show signs of sudden activity.
M = White-light flare.
N = Continuous spectrum shows effects of polarization.
O = Observations have been made in the calcium II lines H and K.
P = Flare shows helium D_3 in emission.
Q = Flare shows the Balmer continuum in emission.
R = Marked assymetry in Hα line suggests ejection of high velocity material.
S = Brightness follows disappearance of filament (same position).
T = Region active all day.
U = Two bright branches, parallel (||) or converging (Y).
V = Occurrence of an explosive phase: important and abrupt expansion in about a minute with or without important intensity increase.
W = Great increase in area after time of maximum intensity.
X = Unusually wide Hα line.
Y = System of loop-type prominences.
Z = Major sunspot umbra covered by flare.

Note:
A line of explanation has been added before each flare event having more than one maxima. The total number of stations reporting some part of the event is given. The number of stations observing at the time of the principal maximum but not reporting the event is given in the second statement. Care should be exercised in utilizing the numbers in the remarks column. The first number is the number of stations reporting the individual maximum, and not the total number of stations reporting some part of the flare event. The last number is the number of stations reporting at the time of the individual maximum and not necessarily the total number of stations observing during the flare event. GRP numbers may appear several times in order to indicate secondary maxima. An asterisk beside an importance indicates a secondary maximum. The word "GRP" has also been omitted to aid in pointing to this condition.
When it is impossible to determine the time of Maximum Phase from the individual reports the time of Area Measurements is used. This time appears in parentheses. For Flares reported by only one station the last 3 digits of the group number appear to the left of the station code.

In the importance column "--" signifies the subflare has been confirmed by the NOAA grouping program but is not included in the I.A.U. Quarterly Bulletin on Solar Activity. These subflares are also not included in the Flare Index below.

DAILY FLARE INDICES

Date	Flare Index	HR OBS	Date	Flare Index	HR OBS	Date	Flare Index	HR OBS
730901	31.80	22.5	730910	18.69	23.6	730920	0.00	22.9
730902	22.24	23.0	730911	28.17	23.5	730921	0.00	21.4
730903	25.25	13.9	730912	0.86	23.5	730923	5.38	24.0
730904	70.49	23.9	730913	3.99	23.5	730924	9.46	24.0
730905	53.72	21.3	730914	13.71	24.0	730925	0.00	22.8
730906	33.17	23.7	730915	5.37	24.0	730926	9.87	24.0
730907	158.68	23.9	730916	0.00	23.9	730927	35.70	22.7
730908	54.33	24.0	730917	0.00	23.3	730929	23.86	23.8
730909	1.31	23.7	730919	0.30	22.5	730930	41.07	21.5

When no Flare Index is given, it is 0 for that day.

SOLAR FLARES
Unconfirmed

SEPTEMBER 1973

OBSERV-ATORY	OBSERVED UT				LOCATION					DURA-TION	IM-POR-TANCE	OBS.		MEASUREMENTS					REMARKS
	DATE SEP	START	END	MAX. PHASE	APPROX. LAT.	APPROX. MER. DIST.	CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY	MIN.		COND.	TYPE	TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hg	MAX. INT. %	
467 MANI	01	0035E	0040	0035U	N04	W20	.345	12511	29.5	5D	-F	1		0035	.41	.43			3
472 ATHN	01	0537	0550	0538U	N04	W25	.424	12511	29.4	13	-F	3	C		.50				DE 6
GRP49474	01	0551	0645	0602	S17	E69	.953	12512	6.4	54	1F				1.26				2 1 1 7
ABST	01	0551E	0645D	0602	S17	E69	.953	12512	6.4	54D	1F		P	0602	1.26			66	FK
ATHN	01	0639	0653	0642	S16	E71	.963	12512	6.6	14	-N	3	C		.33				DE
475 ABST	01	0604	0615	0606	N14	E75	.960	12510	6.9	11	-F		P	0606	.63			63	DJ 6
476 ISTA	01	0750E	0828		N16	W71	.939	12491	26.0	38D	-N								7
487 MITK	02	0001E	0015	0005	N04	W37	.601	12511	29.2	14D	-F		C	0005	1.65	2.00			E 5
490 CRCN	02	0157E	0203	0159	S17	E24	.558	12507	3.9	6D	-F		V		.31				4
493 ABST	02	0534	0600	0540	S09	W01	.280	12516	2.2	26	-N		C	0540	.90	1.00		69	DZ 5
494 ABST	02	0550	0616	0555	N22	E15	.353	12508	3.4	26	1F		C	0555	2.88	2.80		65	FJ 7
GRP49496	02	0706	0728	0713	S19	E56	.875	12512	6.5	22	-F				.61				2 2 2 9
ABST	02	0706	0736D	0714	S19	E56	.890	12512	6.6	32D	-F		P	0714	.90	1.80		80	D
MANI	02	0712E	0718	0712U	S18	E54	.857	12512	6.4	6D	-N	2		0712	.31	.56			
GRP49498	02	0750	0822	0753	N24	E15	.376	12508	3.5	32	-F				1.35				2 1 1 10
ABST	02	0750E	0822D	0753	N24	E15	.376	12508	3.5	32D	-F		P	0753	1.35	1.40		66	E
ARCE	02	0801	0817	0805	N24	E15	.376	12508	3.5	16	-N		C	0805	.23	.23			T
499 ABST	02	0751E	0822D	0804	N05	W39	.627	12511	29.4	31D	-F		P	0804	.72	1.00		52	DZ 11
GRP49503	02	0947	0959	0952	S18	E54	.857	12512	6.5	12	-F				.57				2 2 2 9
ATHN	02	0947E	1000	0949	S18	E53	.849	12512	6.4	13D	-N	3	V		.50				DE
UPIC	02	0952E	0957	0955U	S18	E54	.857	12512	6.5	5D	-F		P	0955	.63				T
504 UPIC	02	1018E	1022U	1019	S18	E54	.857	12512	6.5	4D	-F		P	1019	.85				T 7
505 ATHN	02	1036E	1052	1036U	S09	W01	.280	12516	2.4	16D	-N	3	V		.33				DE 7
506 ATHN	02	1036E	1101	1037	S12	E80	.990	12513	8.4	25D	-N	3	V		.33				DE 7
507 CANR	02	1050	1059D	1059	S15	E53	.839	12512	6.4	9D	-F		V	1057	1.03	1.20			7
GRP49508	02	1121	1138	1129	S18	E53	.849	12512	6.4	17	-N				.99				2 2 1 6
WEND	02	1121	1132		S17	E52	.837	12512	6.4	11	-N								
TEHR	02	1126E	1143	1129U	S18	E54	.857	12512	6.5	17D	-N	4	V		.99				DE
GRP49509	02	1233	1248	1235	S18	E53	.849	12512	6.5	15	-N				.25				2 2 1 7
TEHR	02	1233E	1244	1235	S18	E54	.857	12512	6.6	11D	-N	4	V		.25				DE
WEND	02	1236	1251		S18	E51	.832	12512	6.4	13	-N								
511 HUAN	02	1524E	1531		S17	E50	.819	12512	6.4	7D	-F	1	C	1525	.31	.53			6
GRP49512	02	1601	1607	1602	S16	E48	.797	12512	6.3	6	-F				.52				2 2 2 8
HUAN	02	1601	1606	1602	S16	E48	.797	12512	6.3	5	-F	1	C	1602	.41	.67			
UPIC	02	1601	1608U	1602	S16	E48	.797	12512	6.3	7D	-F		P	1602	.63				T
513 RAMY	02	1620E	1630	1620U	N06	E90	1.000	12517	9.4	10D	-N	2	V						7
518 MANI	03	0028	0056	0034	S17	E44	.764	12512	6.3	28	-N	2		0034	1.13	1.75			E 4
520 MANI	03	0300	0311D	0302	S12	W43	.730	12509	29.9	11D	-N	2		0302	.83	1.26			F 5
521 ABST	03	0526	0538	0528	S16	E42	.749	12512	6.4	12	-F		C	0528	.54	.80		59	D 6
522 ABST	03	0545	0548	0546	S17	E41	.734	12512	6.3	3	-N		C	0546	.72	1.00		80	DV 7
GRP49523	03	0613	0632	0616	S18	E06	.437	12507	3.7	19	-F				.85				2 2 2 9
MANI	03	0612	0617D	0614	S18	E06	.437	12507	3.7	5D	-F	2		0614	.62	.68			F
ABST	03	0614	0632	0617	S18	E05	.434	12507	3.6	18	-F		C	0617	1.08	1.20		66	E
524 ABST	03	0700	0713	0702	N24	E01	.269	12508	3.4	13	1F		C	0702	2.07	2.20		65	EZ 11
525 MONT	03	0717	0721	0717	N05	W51	.774	12511	29.5	4	-F		C	0717	.10				9
GRP49526	03	0753	0758	0754	S14	E10	.398	12507	4.1	5	-F				.14				2 2 2 9
TEHR	03	0751	0757	0752	S14	E10	.398	12507	4.1	6	-N	4	V		.17				DE
MONT	03	0754	0758	0755	S14	E10	.398	12507	4.1	4	-F		C	0755	.10				
527 MONT	03	0802	0820	0805	N05	W51	.774	12511	29.5	18	-F		C	0805	.10				7

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OBSERVATORY	DATE SEP	OBSERVED UT START	OBSERVED UT END	OBSERVED UT MAX. PHASE	LOCATION APPROX. LAT.	LOCATION APPROX. MER. DIST.	LOCATION CENTRAL DISTANCE	LOCATION MCMATH PLAGE REGION	LOCATION CMP DAY	DURATION MIN.	IMPORTANCE	OBS. COND.	OBS. TYPE	MEASUREMENTS TIME UT	MEASUREMENTS MEAS. AREA Sq. Deg.	MEASUREMENTS CORR. AREA Sq. Deg.	MEASUREMENTS MAX. WIDTH Hα	MEASUREMENTS MAX. INT. %	REMARKS
526 MONT	03	0606	0812	0607	S16	E41	.728	12512	6.4	0	-F		C	0807	.10				7
GRP4952	03	0607	0814	0610	S15	E09	.406	12507	4.0	7	-F				.31				2 2 2 7
CRCN	03	0605	0612		S15	E06	.400	12507	3.9	7	-N		V		.52				
MONT	03	0606	0615	0610	S14	E10	.396	12507	4.1	7	-F		C	0810	.10				
531 ARCE	03	0625E	0910		N07	W53	.794	12511	29.4	430	-N		C	0825	.71	1.20			8 8
532 ARCE	03	0625E	0905		N23	W01	.272	12508	3.3	400	-F		C	0835	.52	.50			8 8
533 MONT	03	0904	0908	0906	S17	E39	.714	12512	6.3	4	-F		C	0906	.10				9
534 ARCE	03	0955E	1011		N24	E00	.269	12506	3.4	160	-N		C	1000	.55	.60			8
535 ZURI	03	1012	1034	1022	N09	W56	.826	12511	29.2	22	-F		C	1022	.95	1.70			7
537 MEUD	03	1323	1328	1323	N22	W02	.257	12508	3.4	5	-F		C	1323	.52	.50			E 11
538 CATA	03	1500	1515	1505	S14	E64	.920	12513	6.4	15	-N	3		1505	.29	.74		(195)	9
543 MANI	04	0022	0033	0024	N22	W09	.295	12508	3.3	11	-F	2		0024	1.03	1.08			F 4
544 MANI	04	0022	0032	0028	N15	E26	.448	12510	6.0	10	-N	2		0026	.31	.34			3
545 CRCN	04	0052E	0106	0057	N13	E27	.457	12510	6.1	140	-N		V		.62				3
547 CRCN	04	0140	0155	0145	S17	E30	.620	12512	6.3	15	-N		V		1.24				3
548 KOJA	04	0203E	0220		S16	E29	.601	12512	6.3	30	1F		P	0206	2.86	2.86			E 3
549 MANI	04	0324E	0326U	0324U	N13	E23	.396	12510	5.9	20	-N	1		0324	.62	.67			H 3
GRP4953	04	0553	0610	0558	N13	E22	.381	12510	5.9	17	-N				.40				2 2 2 9
MANI	04	0553	0610U	0555	N13	E22	.381	12510	5.9	17D	-N	1		0555	.21	.22			
CATA	04	0600E	0610	0600	N12	E22	.374	12510	5.9	10D	-N	3		0600	.58	.62		(191)	
552 ADST	04	0605	0618D	0607	N22	W12	.322	12508	3.4	13D	-F		P	0607	1.26	1.30			E 9
553 MANI	04	0616E	0621D	0616U	S16	E27	.598	12512	6.3	3D	-N	1		0618	.21	.26			H 9
3 STATIONS REPORTING GROUP 4955. 7 STATIONS OBSERVING AND NOT REPORTING.																			
GRP4955	04	0655	0731	0709	N14	E21	.370	12510	5.9	36	-N				.25				2 2 2 10
MONT	04	0645	0731	0708	N14	E21	.370	12510	5.9	46	-N		C	0708	.21				EH
CATA	04	0705	0730	0710	N14	E20	.355	12510	5.8	25	-N	3		0710	.29	.31		(151)	
4955	04	0646	0712	0652	N14	E29	.489	12510	6.5	26	-F				.68				2 2 2 9
MONT	04	0646	0708	0652	N14	E29	.489	12510	6.5	22	-N		C	0652	.72				
ARCE	04	0700E	0715D		N13	E28	.472	12510	6.4	15D	-F		P	0700	.64	.70			T
555 MONT	04	0724	0728	0725	S11	E59	.879	12513	8.7	4	-N		C	0725	.41				D 9
556 ARCE	04	1013E	1013D		N21	W15	.342	12508	3.3		-F		C	1013	.35	.40			8
560 CANR	04	1216	1228	1218	N12	E21	.362	12510	6.1	12	-N		V	1218	.62	.70			8
GRP4963	04	1507	1518	1509	S12	E55	.848	12513	8.8	11	-F				.63				2 2 2 7
UPIC	04	1506	1515U	1508	S12	E53	.830	12513	8.6	9D	-F		P	1508	.63				
CANR	04	1507	1516	1509	S12	E56	.856	12513	8.8	11	-F		V		.62				
566 CRCN	05	0231	0240		S17	W16	.501	12507	3.8	9	-F		V		.31				4
571 MANI	05	0446	0456	0450	N11	E11	.199	12510	6.0	9	-N	2		0450	.41	.42			F 6
572 CRCN	05	0522E	0540D		N13	E16	.288	12510	6.4	18D	-F		V		.52				5
573 CATA	05	0635	0650	0640	S18	W21	.540	12507	3.7	15	-N	3		0640	.56	.68		(158)	11
GRP4957	05	0640	0805	0655	S12	W75	.974	12509	30.7	85	-F				.10				2 2 1 11
ISTA	05	0630E	0805		S11	W73	.965	12509	29.8	95D	-N								8D
MONT	05	0649	0704	0655	S13	W77	.982	12509	29.5	15	-F		C	0655	.10				
579 CANR	05	1300	1336	1315	N15	E11	.230	12510	6.4	30	-F		V						8
580 CANR	05	1438	1506	1443	N14	E10	.207	12510	6.4	30	-F		V		.72				9
581 ARCE	05	1528	1531	1526	N11	E06	.122	12510	6.1	3	-F		C	1528	.17	.20			8
590 CRCN	06	0536	0548		N13	W04	.121	12510	5.9	10	-F		V		.31				6

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OBSERV-ATORY	OBSERVED UT				LOCATION					DURATION	IMPORTANCE	OBS.		MEASUREMENTS					REMARKS
	DATE SEP	START	END	MAX. PHASE	APPROX. LAT.	APPROX. MER. DIST.	CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY	MIN.		COND.	TYPE	TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hg	MAX. INT. %	
591 UPIC	06	0625E	0637	0626	N07	W90	1.000	12511	29.5	12D	-N		P	0626	.21				9
GRP49593	06	0831	0910	0841	N10	E03	.071	12510	6.6	39	-F				.52				2 2 2 10
MONT	06	0831	0900	0841	N11	E04	.095	12510	6.7	29	-N		C	0841	.10				D
ARCE	06	0835E	0920		N09	E02	.046	12510	6.5	45D	-F		C	0845	.93	1.00			
GRP49594	06	0912	0929	0916	N06	W90	1.000	12511	30.6	17	1B				.68				2 2 2 11
MEUD	06	0912	0930	0915	N05	W90	1.000	12511	29.6	1o	1B		C	0915	.93				E
UPIC	06	0914E	0927	0916	N07	W90	1.000	12511	29.6	13D	1B		P	0916	.42				
595 TEHR	06	1020E	1032	1020U	N06	W90	1.000	12511	29.7	12D	-B	4	V		.41				F 9
596 TEHR	06	1046E	1105	1047U	N05	W90	1.000	12511	29.7	19D	-N	4	V		.21				F 8
598 TEHR	06	1210E	1230	1219	S13	W90	1.000	12509	29.9	20D	-N	4	V		.41				F 10
GRP49599	06	1244	1253	1246	S16	E25	.558	12513	8.4	9	-F				.62				2 2 2 10
HUAN	06	1243	1250	1244	S15	E21	.507	12513	8.1	7	-F	1	C	1244	.21	.24			D
CANR	06	1245	1255	1247	S17	E28	.599	12513	8.6	10	-F		V	1247	1.03	1.20			
GRP49600	06	1301	1320	1303	S15	E22	.517	12513	8.2	19	-F				.52				2 2 2 12
CATA	06	1300	1320	1300	S15	E20	.497	12513	8.0	20	-N	3		1300	.58	.66		(170)	
HUAN	06	1302	1319	1305	S15	E24	.538	12513	8.3	17	-F	1	C	1305	.46	.54			E
601 UPIC	06	1351E	1357	1353	N08	W90	1.000	12501	29.8	6D	-F		P	1353	.21				12
603 ARCE	06	1644	1647	1644	S15	E19	.487	12513	8.1	3	-F		C	1644	.55	.60			6
611 KODA	07	0455	0555	0505	S20	W43	.770	12507	4.0	60	-B		V	0505			1.72		E 5
612 MONT	07	0643	0700	0648	N10	W90	1.000	12501	30.5	17	-N		C	0648	.10				E 13
GRP49613	07	0850	0900	0852	S16	W42	.739	12507	4.2	10	-N				.36				2 2 2 11
MONT	07	0850	0855	0850	S16	W44	.759	12507	4.1	5	-N		C	0850	.21				
ATHN	07	0854E	0905	0854U	S15	W40	.713	12507	4.4	11D	-N	4	V		.50				F
GRP49615	07	1411	1420	1412	N14	W17	.303	12510	6.3	9	-F				.62				2 2 2 11
MCMA	07	1411	1420	1412	N13	W17	.304	12510	6.3	9	-N		C	1412	.41	.40			E
CANR	07	1412E	1412D		N15	W17	.315	12510	6.3		-F		V	1412	.83	.80			
616 ARCE	07	1555E	1559D		S11	E07	.334	12513	8.2	4D	-N		P	1559	.77	.80			9
GRP49617	07	1602	1645	1608	S11	E10	.355	12513	8.4	43	-F				.57				2 2 2 9
HUAN	07	1601	1627D		S10	E10	.341	12513	8.4	26D	-F	1	P	1607	.62	.66			
MCMA	07	1602	1645	1608	S11	E09	.347	12513	8.3	43	-F		C	1608	.52	.50			E
624 MANI	07	2226E	2233	2227U	S10	W80	.984	12516	1.9	7D	-N	1		2227	.21	.53			3
631 TEHR	08	0411	0416	0413	N22	W63	.885	12508	3.4	5	-N	4	V		.33				F M 5
632 ABST	08	0631E	0655	0634	N16	W30	.509	12510	6.0	24D	-F		P	0634	.90	1.00		55	D 8
GRP49633	08	0732	0825	0738	S11	W02	.315	12513	8.2	53	-F				.56				2 2 2 10
MONT	08	0731	0825	0738	S10	W01	.297	12513	8.2	54	-N		C	0738	.21				E
ABST	08	0732	0806D	0738	S11	W02	.315	12513	8.2	34D	-F		P	0736	.90	.90		56	D
ABST	08	0733	0806D	0736	S11	W04	.320	12513	8.0	33D	-F		P	0736	.90	.90		56	D
634 MONT	08	0734	0737	0736	N24	W64	.894	12508	3.5	3	-F		C	0736	.10				10
GRP49637	08	0904	0909	0904	S18	W58	.887	12507	4.0	5	-F				.47				2 2 2 10
MEUD	08	0904	0908	0904	S17	W56	.870	12507	4.2	4	-F		C	0904	.31	.60			D
UPIC	08	0905E	0909		S19	W59	.897	12507	4.0	4D	-F			0905	.63				
636 MONT	08	0946	0953	0947	N21	W72	.943	12508	3.0	7	-N		C	0947	.10				8
647 MANI	09	0122	0134	0126	S10	W11	.349	12513	8.2	12	-F	2		0126	.31	.33			3
648 MANI	09	0141	0153D	0145	S10	W11	.349	12513	8.2	12D	-F	2		0145	.31	.33			5
649 MANI	09	0451E	0454D	0452U	S18	W36	.710	12512	6.4	3D	-F	2		0452	.41	.57			F 5
653 UPIC	09	0850	0855U	0852	S11	W31	.586	12520	7.0	5D	-F		P	0852	.63				7
654 UPIC	09	0852	0855D		N11	W43	.677	12510	6.1	3D	-F		P	0855	.42				7
655 ARCE	09	0900	0915	0906	S09	W30	.560	12520	7.1	15	-F		C	0906	1.03	1.40			7
657 TEHR	09	1126	1134	1127	S09	W31	.572	12520	7.2	8	-N	3	V		.09				DE 6

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OBSERVATORY	OBSERVED UT				LOCATION					DURATION	IMPORTANCE	OBS. COND.	OBS. TYPE	MEASUREMENTS					REMARKS
	DATE SEP	START	END	MAX. PHASE	APPROX. LAT.	APPROX. MER. DIST.	CENTRAL DISTANCE	MONATH PLAGE REGION	CMP DAY	MIN.				TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hα	MAX. INT. %	
662 PALE	09	2103	2121	2107	S09	W40	.683	12520	6.9	18	-F	3	V		.52				DE 3
663 PALE	09	2118	2129	2119	N23	W62	.984	12508	3.7	11	-N	3	V		.31				DE 3
666 MANI	10	0022	0045	0026	S13	W42	.755	12512	6.9	23	-N	2		0026	.52	.78			F 3
667 MANI	10	0026	0043	0028	S11	W38	.669	12520	7.2	17	-N	2		0028	.31	.42			3
668 MANI	10	0129	0148	0131	S11	W40	.692	12520	7.1	19	-N	2		0131	.52	.70			F 3
672 ABST	10	0626E	0630	0627	N23	W69	.998	12508	3.6	40	1F		P	0627	.90			58	ADG 7
673 ABST	10	0648	0702	0650	S14	W33	.630	12513	7.8	14	-F		C	0650	.90	1.10		55	D 8
675 MONT	10	0933	1059	0937	N22	W90	.999	12508	3.6	86	-F		C	0937	.10				K 6
677 RAMY	10	1150	1221		N23	W90	.999	12508	3.7	31	-N	4	V						7
679 RAMY	10	1450	1502	1453	S10	W49	.785	12520	6.9	12	-F	3	C		.28				DE 5
680 HUAN	10	1516	1523	1519	S10	W32	.591	12513	6.2	7	-F	1	C	1519					7
685 ABST	11	0548E	0614D	0558	N13	W70	.933	12510	6.0	26D	-F		P	0558	.81			55	D 5
688 RAMY	11	1126E	1133D	1126U	S12	W42	.719	12513	6.3	7D	-F	3	C		.19				DE 8
GRP49694	11	1246	1259	1248	S13	W41	.713	12513	6.5	13	-F				.37				2 2 2 8
ATHN	11	1245E	1258	1247	S12	W39	.686	12513	6.6	13D	-F	3	V		.33				DE
CARR	11	1246	1259	1248	S13	W42	.724	12513	6.4	13	-N		V	1248	.41	.50			
GRP49692	11	1650	1706	1655	S11	W45	.747	12513	6.3	18	-F				.63				2 2 1 7
PALE	11	1650	1715	1655	S11	W45	.747	12513	6.3	25	-F	2	C		.63				F
HUAN	11	1656E	1700		S11	W45	.747	12513	6.3	4D	-F	1	P	1658					
GRP49695	12	0645	0722	0655	S12	W70	.952	12520	7.0	37	-F				.72				2 1 1 7
ABST	12	0645E	0722D	0655	S12	W70	.952	12520	7.0	37D	-F		P	0655	.72				DK
MONT	12	0707	0721	0711	S12	W69	.947	12520	7.1	14	-F		C	0711	.10				
697 ARCE	12	1130E	1200D		S11	W57	.862	12513	6.2	30D	-F		C	1145	.45	.90			H 8
702 ABST	13	0629E	0645	0642	S12	W70	.952	12513	6.0	16D	-F		P	0642	.90				DK 7
703 ATHN	13	0646E	0800	0647	S12	W66	.930	12513	6.3	74D	-F	2	C		.17				DE 7
704 ATHN	13	0745E	0753	0746	S11	W83	.995	12520	7.1	8D	-F	4	C		.17				DE 9
711 MEUD	14	1322	1340	1327	S12	W90	1.000	12513	7.8	19	-F		C	1327	.62				Y 9
712 MEUD	14	1416	1432	1421	S12	W90	1.000	12513	7.8	16	-F		C	1421	.62				E 9
713 MONT	15	1046	1050	1047	S16	E79	.989	12523	21.4	4	-N		C	1047	.10				D 6
715 TEHR	16	0435	0444	0437	S13	E51	.814	12522	20.0	9	-F	4	V		.19				DE 6
716 TEHR	16	0717	0736	0723	N16	E65	.899	12525	21.2	19	-N	4	V		.36				DE 6
717 RAMY	16	1226	1236	1232U	N13	W22	.381	12527	14.9	10	-F	3	C		.28				DE H 6
718 MANI	17	0143	0147D	0147U	S09	E36	.634	12522	19.8	4D	-F	2		0147	.83	1.06			F 5
720 TEHR	18	0438E	0443	0438U	N22	E66	.994	12533	24.6	5D	-N	4	V		.33				5
721 ABST	18	0638	0714	0640	S10	E20	.443	12522	19.8	36	-F		C	0640	1.80	2.00		52	E 7
722 ABST	18	0645	0750	0657	N21	W05	.253	12529	17.9	65	-F		C	0657	.90	.90		52	DGL 7
723 PALE	18	1956E	2012	1956U	N17	E35	.581	12525	21.5	16D	-F	3	V		.46				F 3
724 ATHN	19	0616E	0628	0618	N13	E28	.472	12525	21.4	12D	-F	3	V		.50				DE 5
725 UPIC	19	1046	1057D	1052	N12	E50	1.000	12532	26.2	11D	-N		P	1052	.21				4
726 ARCE	19	1203E	1214D		N19	E24	.441	12525	21.3	11D	-N		C	1206	.25	.30			6
727 ARCE	20	0823E	0823D		N05	E47	.729	12530	23.9		-N		C	0823	.31	.50			6
731 MANI	22	0307	0313	0308	N15	E61	.866	12535	26.7	6	-F	2		0308	.31	.58			F 5
732 MANI	22	0353	0406	0357	S16	W17	.478	12523	20.9	15	-F	2		0357	.62	.70			F 5

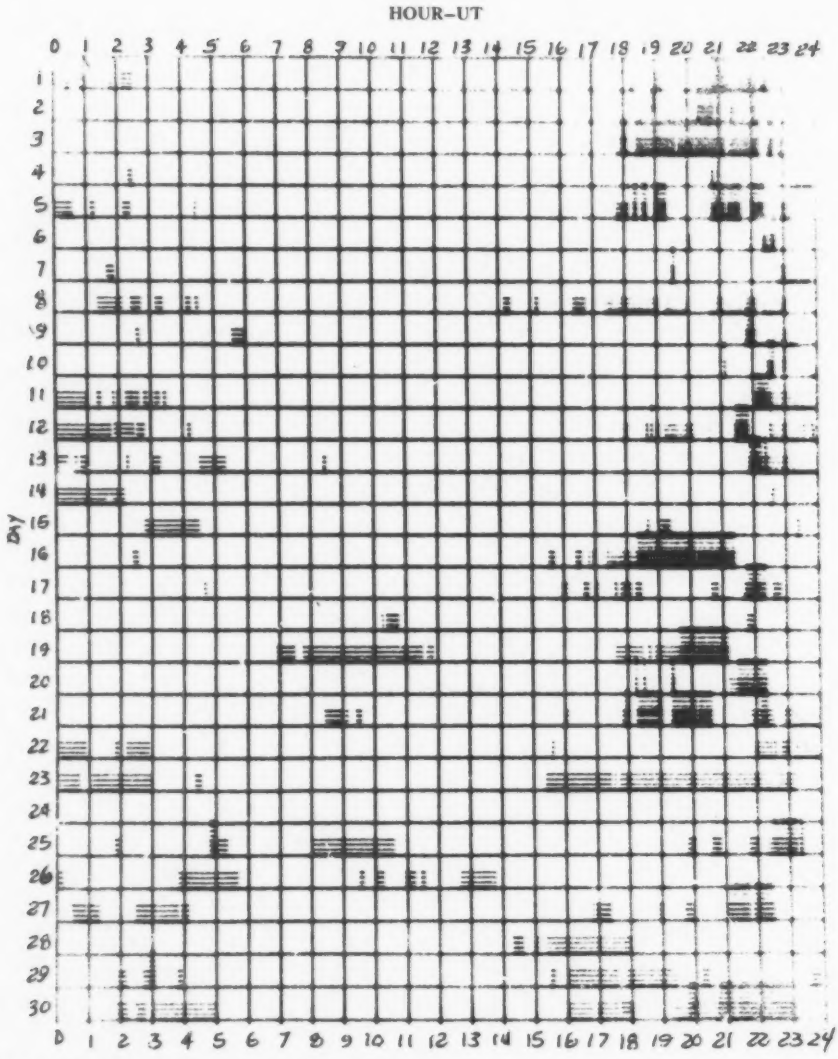
SOLAR FLARES
Unconfirmed
SEPTEMBER 1973

OBSERVATORY	OBSERVED UT				LOCATION					DURATION	IMPORTANCE	OBS.		MEASUREMENTS					REMARKS
	DATE SEP	START	END	MAX. PHASE	APPROX. LAT.	APPROX. MER. DIST.	CENTRAL DISTANCE	HOMATH PLAGE REGION	CMP DAY	MIN.		COND.	TYPE	TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hα	MAX. INT. %	
733 ABST	22	0535	0612	0541	N13	E60	.859	12535	26.7	37	1F		C	0541	1.26	2.50		62	E 6
GRP49734	22	0655	0708	0656	N17	W14	.291	12525	21.2	13	-F				.61				2 2 2 8
MANI	22	0654E	0704D	0654U	N15	W14	.273	12525	21.2	10D	-F	1		0654	.31	.32			F
ABST	22	0655	0708	0657	N18	W13	.288	12525	21.3	13	-F		C	0657	.90	.90		55	D
735 ATHN	22	0920E	0931D	0921	N16	W16	.310	12525	21.2	11D	-N	3	C		.66				DE 5
736 RAMY	22	1316	1334	1320	N16	E52	.784	12535	26.5	16	-F	4	C		.28				6
736 ARCE	23	0850E	0850D		N06	E39	.625	12532	26.3		-N		C	0850	.40	.50			7
740 RAMY	23	1220E	1226	1221U	N05	E33	.543	12532	26.0	6D	-F	3	V		.19				DE 5
741 ATHN	23	1252	1314	1255	N05	E35	.572	12532	26.2	22	-N	4	C		.33				DE 6
749 TEHR	24	0547E	0559	0547U	N13	E38	.614	12535	27.1	12D	-N	2	C		.17				DE 6
750 TEHR	24	0624	0629	0625	N15	E32	.535	12535	26.7	5	-N	3	C		.09				DE 6
751 ATHN	24	0630	0638	0633	N15	E90	1.000	12537	31.0	8	-N	3	C						DE 9
754 ABST	24	0750E	0801	0752	N22	E69	.998	12537	31.0	11D	2N		P	0752	2.25			82	AEZ 8
755 ABST	24	0754	0807	0757	N05	E03	.063	12530	24.6	13	1N		P	0757	2.70	2.70		58	E 8
756 ATHN	24	1139E	1155	1144	N13	E34	.559	12535	27.0	16D	-N	4	V		.66				UDE 5
757 TEHR	24	1240	1249	1241	N14	E29	.490	12535	26.7	9	-N	3	V		.50				DE 4
759 PALE	25	0034	0132D	0053U	N29	E73	.950	12541	30.5	58D	1N	2	V		2.06				3
760 KODA	25	0135E	0237	0220	N15	E22	.391	12535	26.7	62D	-F		P	0201	1.04	1.05	1.40		E 5
763 PALE	25	1717	1724	1718	N13	E10	.200	12535	26.5	7	-F	4	V		.21				F 4
764 PALE	25	1812E	1842	1813U	S14	E80	.990	12540	31.8	30D	-N	4	V		.46				DE 3
767 MANI	26	0141E	0158	0143	N03	W21	.363	12530	24.5	17D	-N	1		0143	.52	.55			FU 3
771 CANR	26	0907	0930		N07	W29	.481	12530	24.2	23	-N		V	0910	.93				3
785 MONT	28	0647	0652	0648	S14	E39	.694	12540	31.2	5	-F		C	0648	.41				5
GRP49786	28	0752	0847	0832	S14	E38	.683	12540	1.2	55	-F				.41				2 1 1 9
CRON	28	0746	0809		S14	E38	.683	12540	31.2	23	-N		V		.31				
MONT	28	0758	0847	0832	S14	E38	.683	12540	31.2	49	-F		C	0832	.41				HK
787 KHAR	28	0856E	0907		S16	E45	.767	12540	31.7	11D	1F		V	0856			1.80		BDH 9
788 MONT	28	0956	0959	0958	S13	E65	.924	12542	2.3	3	-N		C	0958	.10				D 7
789 ABST	28	1127	1142	1129	N13	E62	.877	12543	2.1	15	-F		C	1129	.72	1.50		54	DZ 7
790 ABST	28	1137	1206D	1141	S15	E36	.667	12540	31.2	29D	1F		P	1141	1.71	2.20		55	E 5
795 ABST	29	0644	0657	0647	N12	W37	.600	12535	26.5	13	-F		C	0647	1.44	1.80		60	EJ 5
GRP49796	29	0749	0804	0754	S15	E52	.829	12542	3.2	15	-F				.46				2 2 2 7
ABST	29	0747	0802	0753	S15	E52	.829	12542	2.2	15	-F		C	0753	.81	1.40		55	DJ
MONT	29	0750	0805	0754	S14	E51	.816	12542	2.2	15	-N		C	0754	.10				D
797 HUAN	29	1216	1218	1217	N13	W35	.573	12535	26.9	2	-F	1	C	1217	.46	.56			5
798 CANR	29	1511E	1512D		N15	W40	.644	12535	26.6	1D	-F		V	1512	.83	1.00			3
811 CRON	30	0659	0710		N13	W50	.761	12535	26.5	11	-F		V		.31				5
812 BUCA	30	0726E	0745D		S14	E13	.414	12540	31.3	19D	-F		C	0728	1.66	1.80			4
813 CANR	30	0948	1000	0951	N11	W54	.803	12535	26.4	12	-N		V		.72				5
814 CANR	30	1123	1133	1126	N11	W55	.813	12532	26.3	10	-N		V		.52				3
815 CATA	30	1145	1150	1145	N17	E39	.635	12543	2.4	5	-N	1		1145	.58	.75		(186)	3
818 PALE	30	1804E	1805D	1804U	S16	E03	.390	12540	31.0	1D	-F	2	V		.46				DE 3

INTERVALS OF NO FLARE PATROL OBSERVATION

FOR PRECEDING SOLAR FLARE TABLE

SEPTEMBER 1973



Observatories included in total patrol:

Abastumani	Carnarvon	Huancayo	Kodaikanal	Mitaka	Tehran
Arcetri	Catania	Istanboul	Locarno	Monte Mario	Upice
Athenes	Gran Canaria	Kharkov	Manila	Palehua	Voroshilov
Bucharest	Herstmonceux	Kiev	McMath-Hulbert	Ramey	Wendelstein
			Meudon	Tachkent	Zürich

Times of no flare patrol are shown by the shaded area for each day divided into times of no cinematographic patrol (bottom half of day) and time of neither visual nor cinematographic patrol (top half of day).

SOLAR RADIO EMISSION
OUTSTANDING OCCURRENCES

SEPTEMBER 1973

SEP. 1973	FREQUENCY	STATION	TYPE	STARTING TIME UT	TIME OF MAXIMUM UT	DURATION MINUTES	FLUX DENSITY 10^{-22} Wm^{-2} Hz^{-1} PEAK	FLUX DENSITY 10^{-22} Wm^{-2} Hz^{-1} MEAN	INT	REMARKS
1	200	GORK	44	0303 E		417 D		5.0		
	100	GORK	44	0303 E		417 D		5.0		
	950	GORK	1	0357.2	0357.4	.5	4.0	2.0		
	260	ONDR	44	0640	1322	500	45.0			
	245	SGMR	44	1012 E	1359.2	782 D	63.1			
	208	VORO	44	2100	2347	240	15.0	8.0		
	200	GORK	6	0634	0639.3	.8	170.0	60.0		
	200	GORK	6	0736.6	0736.7	.7	170.0	60.0		
	200	GORK	6	0754	0754.5	.8	150.0	60.0		
	210	IZMI	6	0807	0807.3	.3	190.0	100.0		
	210	IZMI	6	1101.7	1101.8	.3	200.0	100.0		
	536	ONDR	45	1252	1252	1	45.0			
	808	ONDR	45	1257	1257	1	90.0			
	2800	OTTA	24	1300		7	2.0			
	2800	OTTA	24	1307		128	2.0			
	808	ONDR	45	1321	1321	.5	70.0			
	808	ONDR	45	1350	1350.5	1.5	80.0			
	536	ONDR	45	1350	1350	2	40.0			
	8800	ATHN	2	1428.8	1429.4	3.4	7.0	3.5		
	8800	SGMR	1	1428.8	1429.2	1	9.0	3.0		
	7000	SAOP	4	1428.9	1429.3	1.1	12.0	5.5		
	4995	SGMR	3	1428.8	1429.3	1.2	11.3	3.8		
	4995	ATHN	2	1428.9	1429.4	3.3	7.0	3.5		
	4995	BOUL	3	1428.5	1429	2	11.0	3.0		
	2695	ATHN	2	1428.9	1429	2.4	2.3	.6		
	7000	SAOP	29	1430		.9				
	2800	OTTA	24	1515		15	1.0			
	29	UPIC	45	1524	1524.5	1.5				
	2800	OTTA	24	1530		117	1.0			
	2800	OTTA	24	1712		48	2.0			
	2800	OTTA	24	1800		165	2.0			
	4995	SGMR	22	1818.7	1823.7	18.3	5.3	1.3		
	8800	SGMR	22	1823	1823.9	10.6	10.4	2.6		
	1415	SGMR	20	1825	1826.8	29.2	2.0	.5		
	2800	OTTA	24	2045		45	2.2			
	2800	OTTA	24	2130		260 D	2.2			
	2695	PENT	20	2255	2325	50	1.2	0.6		
2	3750	TYKW	1	0042	0043.5	2	4.0	1.0		
	2000	TYKW	1	0043	0043.5	1	2.0	0.5		
	1000	TYKW	1	0043	0043.5	1	6.0	1.0		
	3750	TYKW	20	0235	0245	70	4.0	2.0		
	100	GORK	44	0303 E		298 D		5.0		
	200	GORK	44	0503 E		267 D		10.0		
	260	ONDR	44	0630	1452	530	50.0			
	100	GORK	44	0741		139 D		10.0		
	245	SGMR	44	1013 E	1610.8	779 D	61.9			
	208	VORO	44	2100	0022	240	36.0	17.0		
	100	GORK	41	0416.5	0416.9	3	50.0			
	100	GORK		0416.5	0419		50.0D			
	100	GORK	6	0437.8	0438	.3	60.0	30.0		
	100	GORK	41	0519.9	0520.7	2.4	50.0			
	100	GORK		0519.9	0521.6		50.0			
	100	GORK	6	0547.6	0548.3	.9	60.0	30.0		
	1000	TYKW	45	0752	0756.8	8	20.0	3.0		
	950	GORK	41	0753.3	0754	5	2.5			
	950	GORK		0753.3	0757		12.0			
	210	IZMI	41	0753	0756.7	6	60.0			
	23	POTS	5	0753.6	0753.5	.6	500.0U	175.0U		
	29	UPIC	45	0754	0754.5	5				
	930	BORD	45	0755	0756.7	4	15.0	2.0		
	650	GORK	40	0755.1	0758	3.1	4.0			
	100	GORK	41	0950.9	0951.4	6.4	45.0			
	100	GORK		0950.9	0955		45.0D			
	2800	OTTA	24	1112		18	3.8			
	2800	OTTA	24	1140		110	3.8			
	2800	OTTA	27	1143		52	2.0			
	2800	OTTA	24	1330		25	2.0			
	9285	ARCE	20	1338.6	1343.2	35				
	8800	ATHN	1	1338.6	1339.6	2.4	7.0	3.5		
	4995	ATHN	3	1338.6	1339.5	2 U	10.2	4.4U		
	2830	ARCE	20	1338.8	1342	20				
	2800	OTTA	24	1355		70	2.0			
	2800	OTTA	25	1505		85	1.0			
	2800	OTTA	27	1505		85	3.0			
	9285	ARCE	1	1600.8	1601.4	1.2				
	8800	SGMR	3	1600.6	1601	4.7	10.3	4.0		
	4995	SGMR	1	1600.7	1601	2.1	5.4	2.6		
	2830	ARCE	1	1600.7	1601.1	1				
	29	UPIC	45	1618.5	1619	1.5				
	18	MCMA	41	1620	1626	7			1	
	2800	OTTA	25	1630		270	1.0			
	2800	OTTA	23	1635	1910	235	5.8	3.0		
	8800	SGMR	1	1807.5	1808	3.3	8.2	3.8		
	4995	SGMR	1	1807.4	1808	6	8.0	3.7		
	2800	OTTA	1	1807.5	1808	1.5	3.0	1.5		
	2695	SGMR	1	1807.4	1808	2.7	3.1	1.5		
	245	BOUL	42	1915	2320	284 D			1	
	4995	BOUL	45	1935	1937.5	4	20.0	5.0		
	2800	OTTA	45	1935	1938	7	8.0	2.6		

SOLAR RADIO EMISSION
OUTSTANDING OCCURRENCES

SEPTEMBER 1973

SEP. 1973	FREQUENCY	STATION	TYPE	STARTING TIME UT	TIME OF MAXIMUM UT	DURATION MINUTES	FLUX DENSITY 10^{-22} Wm^{-2} Hz^{-1} PEAK	FLUX DENSITY 10^{-22} Wm^{-2} Hz^{-1} MEAN	INT	REMARKS
	2695	BOUL	3	1937.5	1938	1	5.0	2.0		
	2800	OTTA	20	2105	2210	145	3.8	1.9		
3	4995	CRON	3	0014	0015	3.5	7.0	2.0		
	100	HIRA	45	0155	0155.8	1	70.0	30.0		
	200	GORK	44	0300 E		480 D		15.0		
	100	GORK	44	0300 E		210 D		5.0		
	260	ONDR	44	0630	0815.5	520	65.0			
	100	GORK	44	0630		390 D		10.0		
	210	IZMI	44	0700		300	70.0			
	245	SGMR	44	1014 E	1859.2	776 D	238.0			
	200	GORK	44	1207 E		53 D		10.0		
	245	BOUL	42	1239 E	1422	237 D			1	
	245	BOUL	42	1818	1929	134			2	
	100	GORK	41	0310.3	0310.5	10.2	30.0			
	100	GORK		0310.3	0312.7		30.0			
	100	GORK		0310.3	0315.9		30.0			
	100	GORK		0310.3	0320.1		30.0			
	100	GORK	41	0340.3	0340.5	3.8	35.0			
	100	GORK		0340.3	0342.9		35.0			
	100	GORK	6	0356.5	0359	3.5	30.0			
	200	GORK	41	0441.1	0441.2	5.2	1500.0			
	200	GORK		0441.1	0446.2		1700.0			
	1000	TYKW	1	0512	0514.5	3	4.0	1.0		
	2000	TYKW	1	0513	0514.5	3	5.0	1.0		
	200	GORK	41	0543.9	0548.3	18.7	300.0			
	200	GORK		0543.9	0602		300.0			
	100	GORK	41	0557	0559.8U	12.5	30.0D			
	100	GORK		0557	0607.9U		30.0D			
	100	HIRA	45	0601	0602	1.5	65.0	20.0		
	1420	CANR	3	0625	0626	2	3.0	1.0		
	3750	TYKW	1	0657	0659.3	7	4.0	2.0		
	9285	ARCE	1	0659.2	0659.8	3				RECORD DIST
	2830	ARCE	1	0659	0659.3	.8				RECORD DIST
	200	GORK	6	0736.8	0738.1	1.4	300.0	100.0		
	9285	ARCE	20	0737	0807.2	50 U				
	2830	ARCE	20	0739.3	0823.7	80				
	210	IZMI	41	0912	0929.4	19	2960.0			
	100	GORK	41	0948	0948.2	4.9	400.0			
	100	GORK		0948	0952.3		400.0			
	9285	ARCE	2	0959.4	1000.4	2				
	2830	ARCE	1	0959.8	1000.2	.8				
	100	GORK	6	1022.9	1023.1	.5	400.0	200.0		
	2830	ARCE	20	1034.4	1043.3	44				
	100	GORK	6	1036.3	1036.9	1.3	400.0	200.0		
	9285	ARCE	20	1042.8	1043.4	12 U				RECORD DIST
	2695	CANR	3	1043	1043.5	1	5.0	2.0		
	100	GORK	6	1047.7	1048.3	1.3	270.0	130.0		
	100	GORK	41	1105.2	1105.6	1.9	200.0			
	100	GORK		1105.2	1106.5		350.0			
	100	GORK	6	1117.2	1117.7	.8	400.0			
	100	GORK	41	1236.4	1238	6.9	270.0			
	100	GORK		1236.4	1242.1		300.0			
	9285	ARCE	1	1343	1343.2	1				
	9285	ARCE	3	1358.7	1359.1	2.5				
	2830	ARCE	1	1358.2	1358.6	1				
	8800	SGMR	20	1458.4	1505.9	23.3	14.2	7.0		
	7000	SAOP	22	1604.2		8.8	13.4			
	9285	ARCE	8	1606.6	1606.7	.5				
	8800	SGMR	22	1610.6	1615.7	35.1	31.1	15.2		
	2695	SGMR	22	1610.5	1614.1	34.1	11.7	5.0		
	9285	ARCE	22	1611.1	1615.5	40 U				AT SUNSET
	4995	SGMR	22	1611.4	1615.7	29.6	28.7	13.2		
	9400	HUAN	20	1612.8	1615.3	22.9	20.6	7.7		
	2830	ARCE	20	1612	1614	28 U				AT SUNSET
	2800	OTTA	21	1612.8	1615	77	7.6	2.0		
	10700	PENN	20	1613.3	1615.7	14.7	13.3	6.7		
	7000	SAOP	23	1613.2	1615.7	19.8	42.4			
	7000	SAOP	22	1613.2		19.8	20.1			
	4995	BOUL	45	1613	1616	12.5	31.0	9.0		
	4995	CANR	3	1613	1615.5	7.5	14.0	5.0		
	2800	OTTA	1	1613.5	1614	1	4.6	2.4		
	2695	BOUL	3	1614.5	1615.5	11.5	9.0	3.0		
	2695	CANR	45	1614	1617	15.5	8.0	2.0		
	7000	SAOP	4	1615.1	1615.7	1.3	20.1	12.3		
	606	SGMR	1	1927.2	1927.3	.4	3.6	1.6		
	410	SGMR	6	1927.1	1927.3	.6	28.5	10.4		
	245	SGMR	48	1927	1927.3	.7	680.0	272.0		
	100	HIRA	45	2116.7	2117.4	2	130.0	50.0		
	1415	SGMR	1	2121.9	2123.7	3.3	3.6	1.8		
	2800	OTTA	1	2122.5	2123.5	3	7.2	2.0		
	606	SGMR	1	2122.5	2123.7	1.8	3.6	1.8		
	1420	BOUL	3	2123.5	2124.5	2	3.0	1.0		
	2695	BOUL	3	2124	2125	2	8.0	2.0		
	18	MCMA	41	2125	2130	6			1	
	100	HIRA	45	2128.2	2128.8	1	150.0	60.0		
	208	VORO	42	2200	2232	36	41.0			
	245	BOUL	41	2212	2230	19			1	
	100	HIRA	45	2321	2321.6	1.5	210.0	100.0		
	3750	TYKW	1	2334	2334.7	2	5.0	1.0		

SOLAR RADIO EMISSION
OUTSTANDING OCCURRENCES

SEPTEMBER 1973

SEP. 1973	FREQUENCY	STATION	TYPE	STARTING TIME UT	TIME OF MAXIMUM UT	DURATION MINUTES	FLUX DENSITY 10^{-22} Wm^{-2} Hz^{-1} PEAK	FLUX DENSITY MEAN	INT	REMARKS
	2695	PENT	2	2334.5	2335	1.5	4.0	2.0		
	2000	TYKW	1	2334	2335.7	3	2.0	0.7		
4	2695	PENT	26	0035		20	2.3			
	4995	MANI	4	0051.3	0054.1	5.8	32.8	10.7		
	2695	CRON	45	0051.5	0054	4	13.0	4.0		
	2695	PENT	46	0051	0053	6	14.4	8.2		
	3750	TYKW	45	0052	0054.3	8	25.0	4.0		
	2695	MANI	4	0052.2	0054.4	6.5	17.6	6.4		
	2000	TYKW	45	0052	0053	7	10.0	3.0		
	1415	MANI	4	0052.7	0054.5	5.8	11.2	4.1		
	1000	TYKW	45	0052	0055.7	7	14.0	3.0		
	606	MANI	2	0052.7	0054.7	4.3	5.2	1.4		
	208	VORO	42	0052	0053	37	600.0			
	8800	MANI	4	0053.2	0054.1	3.1	10.4	1.7		
	1420	CRON	45	0053	0055	4	8.0	2.0		
	100	HIRA	45	0053	0053.3	1	140.0	40.0		
	100	HIRA	45	0058	0058.5	1	80.0	30.0		
	606	MANI	40	0124.1	0127.7	5.1	21.2	3.3		
	100	HIRA	45	0124.5	0125	5	180.0	40.0		
	3750	TYKW	20	0215	0300	110	4.0	2.0		
	2000	TYKW	45	0323.5	0323.8	1.5	5.0	1.0		
	1415	MANI	2	0323	0324.8	4.2	8.3	1.0		
	1000	TYKW	45	0323	0324.7	2.5	23.0	3.0		
	606	MANI	41	0323	0324.8	13.9	23.8	.9		
	100	HIRA	45	0323	0324.4	2.5	190.0	100.0		
	100	HIRA	45	0330.5	0330.6	1	90.0	30.0		
	100	HIRA	45	0335.3	0336.2	1.6	120.0	30.0		
	200	GORK	44	0400 E		534 D		15.0		
	100	GORK	44	0400 E		540 D		10.0		
	29	UPIC	44	0518		276				
	260	ONDR	44	0620	0947	550	240.0D			
	245	SGMR	44	1015 E	1924.3	773 D	118.0			
	245	BOUL	42	1238 E	1630	736 D			1	
	208	VORO	44	2300	0020	180	12.4	11.0		
	100	GORK	6	0415	0416.2	2.7	60.0D			
	3750	TYKW	1	0416	0417	3	3.0	1.0		
	100	GORK	41	0442.2	0445.9	15.2	60.0D			
	100	GORK		0442.2	0450.9		1000.0D			
	100	GORK		0442.2	0456		1500.0			
	100	HIRA	45	0455	0455.7	1.5	140.0	20.0		
	100	GORK	41	0514.8	0519 U	11.2	1000.0D			
	100	GORK		0514.8	0522.8		7000.0			
	100	HIRA	45	0515	0519.3	12	180.0	40.0		
	950	GORK	2	0518.9	0521.8	6.4	5.4			
	606	MANI	40	0518.3	0524.5	10.2	12.2	1.8		
	200	GORK	41	0518	0519.5	5.3	1800.0			
	200	GORK		0518	0522.5		500.0			
	1415	MANI	22	0519	0521.7	12	2.4	1.0		
	9100	GORK	1	0530.7	0531.3	4.6	15.3	5.0		
	100	GORK	41	0545	0545.6	10	400.0			
	100	GORK		0545	0554.2		1000.0D			
	113	POTS	41	0553.5U	0559.2U	6.5	700.0	20.0U		
	100	HIRA	45	0553.5	0554.2	1.5	140.0	20.0		
	234	POTS	45	0621.5U	0621.2U	1	120.0	20.0		
	9100	GORK	1	0647.6	0648.4	4.9	26.0	6.0		
	234	POTS	5	0658.7	0658.7	.1	100.0	30.0		
	210	IZMI	41	0702	0702.5	11	510.0			
	200	GORK	41	0702.6	0702.8	3.8	600.0			
	200	GORK		0702.6	0705.9		250.0			
	100	HIRA	45	0702.5	0702.8	1	150.0	40.0		
	100	GORK	41	0702.7	0703	4.3	1000.0D			
	100	GORK		0702.7	0706.2		1000.0D			
	100	HIRA	45	0705	0705.9	1.5	110.0	50.0		
	234	POTS	40	0710	0710.3	2.3	100.0	10.0		
	113	POTS	41	0749.5	0755.9	6.8	500.0	3.0		
	23	POTS	45	0755.9	0756	.5	3000.0	600.0		
	260	ONDR	45	0810.5	0811	2.5	150.0			
	100	GORK	41	0811.4	0811.7	5.1	70.0D			
	100	GORK		0811.4	0813.3		70.0D			
	234	POTS	45	0813	0813	.1	150.0	40.0		
	113	POTS	45	0813	0813	.3	600.0	120.0		
	100	GORK	6	0831.3	0831.5	.5	70.0D			
	100	GORK	6	0854.5	0855.4	1.4	70.0D			
	234	POTS	45	0920.4	0920.5	.2	120.0	20.0		
	100	GORK	6	0930	0930.8	1.8	60.0D			
	260	ONDR	45	0943.5	0947	6	240.0D			
	6100	KISV		0945.5	0947.5	3.5	262.0			
	3000	BERL	4	0945.5	0948	12	58.0	12.0		
	234	POTS	45	0945.7	0947.2	5.2	4500.0	150.0		
	210	IZMI	48	0945.5	0948.5	6.5	2840.0			
	200	GORK	48	0945.9	0947 U	3.8	5000.0D			
	113	POTS	45	0945.5	0947.6	4.8	4200.0	350.0		
	100	GORK	6	0945.7	0947.8	4.2	8000.0			
	23	POTS	45	0945.8	0946.2	4.5	100000.0D	5000.0D		
	9500	BERL	4	0946.5	0948	11	18.0	5.2		
	4995	CRON	4	0946.5	0948	1.5	33.0	10.0		
	4995	CANR	4	0946.5	0948	4	42.0	14.0		
	2830	ARCE	4	0946.2	0948.1	2.8				
	2830	ARCE	29	0949		39				

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SEP. 1973	FREQUENCY STATION	TYPE	STARTING TIME UT	TIME OF MAXIMUM UT	DURATION MINUTES	FLUX DENSITY 10^{-22} Wm^{-2} Hz^{-1} PEAK	FLUX DENSITY 10^{-22} Wm^{-2} Hz^{-1} MEAN	INT	REMARKS
4	2695 CANR	45	0946	0948.5	10.5	61.0	18.0		
	1500 BERL	4	0946	0947.5	9	45.0	9.3		
	1420 CANR	45	0946	0948	7	22.0	8.0		
	1420 CRON	4	0946	0948	2.5	29.0	9.0		
	950 GORK	4	0946.5	0947.9	11.5	74.0			
	950 GORK	29	0949	0953.8	8.9	7.0			
	930 BORD	45	0946	0947.5	8	85.0	7.0		
	808 ONDR	45	0946	0948	10	120.0			
	650 GORK	4	0946.4	0947.8	4.1	57.0			
	536 ONDR	45	0946	0947.5	4	125.0			
	510 POTS	45	0946.5	0947.7	2	210.0	30.0		
	408 TRST	45	0946	0947.6	4	370.0D			
	29 UPIC	45	0946		8				
	10500 BERN	3	0947.3	0948.2	7	19.0			
	9285 ARCE	3	0947	0948.3	2				
	9285 ARCE	29	0949		12.5				
	3100 CRIM	3	0947	0949	9	40.0	13.0		
	2695 CRON	4	0947	0949	2.5	29.0	8.0		
	225 HARS	45	0947	0949	3	290.0D	200.0		
	4995 CRON	45	0951.5	0953.5	4.5	32.0	6.0		
	100 GORK	6	1002.3	1002.9	1	70.0D			
	234 POTS	40	1154	1155.9	1.1	500.0	20.0		
	18 MCMA	6	1259	1300	2			1	
	29 UPIC	45	1307.5	1308	1.5				
	113 POTS	45	1327.6	1327.6	.7	200.0	15.0		
	18 MCMA	6	1336	1338	2			1	
	234 POTS	45	1341.3	1341.5	.2	120.0	25.0		
	7000 SAOP	8	1425.9	1426	.7	14.7			
	7000 SAOP	22	1441.4		58 U	42.9			
	4995 SGMR	22	1457.8	1504.1	29.7	22.1	9.8		
	4995 CANR	45	1457.5	1501.5	11	12.0	3.0		
	1415 SGMR	46	1457.1	1501.2	9.9	37.8	14.0		
	1415 SGMR	46		1502.3		16.5			
	15400 SGMR	20	1458 U	1506.3	30 U	17.4	8.2		
	9285 ARCE	22	1458.1	1505	32				
	8800 SGMR	20	1458.4	1505.9	23.3	14.2	7.0		
	2830 ARCE	40	1458.2	1501.1	20.6				
	2800 OTTA	21	1458	1504	32	6.0	2.6		
	2800 OTTA	1	1458.5	1459	1	2.0	0.8		
	2695 SGMR	22	1458.3	1501.1	23.7	18.6	7.5		
	1420 CANR	45	1458	1501.5	8.5	32.0	8.0		
	245 SGMR	48	1458.2	1502.2	8.4	520.0	210.0		
	2695 CANR	45	1459	1504.5	10	22.0	5.0		
	9400 HUAN	20	1500.2	1506.3	17.6	11.8	5.3		
	2800 OTTA	46	1500.3	1501.3	3	17.8	7.4		
	930 BORD	45	1500	1500.9	7	126.0	6.0		
	808 ONDR	45	1500	1502	9	165.0			
	606 SGMR	46	1500.1	1500.9	6.7	48.2	25.0		
	606 SGMR	46		1502.3		79.2			
	536 ONDR	45	1500	1502.5	6	80.0			
	410 SGMR	6	1500.2	1502.4	5.6	118.0	40.0		
	260 ONDR	45	1500	1504	6.5	130.0			
	2695 BOUL	45	1501	1502.5	7	17.0	5.0		
	1420 BOUL	45	1501	1502.5	7	31.0	7.0		
	29 UPIC	45	1501.5	1501.5	4.5				
	234 POTS	45	1502.2	1502.4	.6	250.0	50.0		
	225 HARS	45	1502	1502.5	1	290.0	100.0		
	18 MCMA	41	1502	1505	4			2	
	2800 OTTA	4	1504	1504.2	.8	14.0	7.0		
	2800 OTTA	29	1504.8		1.5	3.8			
	18 MCMA	6	1513	1514	4			1	
	8800 SGMR	20	1538.8	1549.9	44.8	8.6	4.3		
	4995 SGMR	20	1538.6	1549.7	48.9	11.2	5.6		
	2800 OTTA	21	1538	1549	170	9.0	4.0		
	2695 SGMR	20	1539.5	1549.7	47.9	10.8	5.4		
	1415 SGMR	22	1540.8	1549.1	31.6	8.0	3.8		
	2695 BOUL	21	1545.5	1550.5	18	8.0	2.0		
	1420 CANR	3	1545	1549.5	7	6.0	1.0		
	2695 CANR	21	1546.5	1548.5	21.5	6.0	1.0		
	1420 BOUL	3	1546	1550	7	7.0	1.0		
	606 SGMR	1	1546.2	1549	8.8	5.8	2.9		
	4995 SGMR	1	1627.5	1627.8	.7	7.7	2.6		
	2695 SGMR	1	1627.4	1627.7	.9	2.2	.7		
	1415 SGMR	1	1627.6	1627.8	1.3	2.1	.7		
	606 SGMR	4	1627.5	1627.8	1	26.6	8.1		
	410 SGMR	6	1627.5	1627.8	1.1	42.5	14.2		
	245 SGMR	48	1627.5	1627.8	1.1	689.0	230.0		
	225 HARS	45	1627.5	1628	1	290.0	105.0		
	18 MCMA	41	1627	1638	15			3	
	4995 SGMR	20	1628.2	1635.3	16.9	10.2	4.0		
	2695 SGMR	20	1628.3	1635.1	31.7	7.6	2.9		
	29 UPIC	45	1628	1628.5	2				
	1420 CANR	3	1631.5	1634.5	4	3.0	1.0		
	2695 CANR	3	1632.5	1635.5	6	6.0	2.0		
	1415 SGMR	20	1632.7	1634	27.7	4.0	1.7		
	4995 CANR	21	1633	1636.5	10.5	9.0	3.0		
	2800 OTTA	2	1633	1634.2	8	3.8	1.3		
	2695 BOUL	3	1634	1636	7	5.0	2.0		
	1420 BOUL	3	1634.5	1635.5	2.5	4.0	1.0		
	2800 OTTA	1	1711.3	1711.5	.7	3.8	1.9		

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	2695	BOUL	21	1711.5	1713	7	5.0	1.0		
	2800	OTTA	20	1912	1923	23	2.4	1.2		
	2800	OTTA	20	1940	2010	65	2.4	1.2		
	2800	OTTA	20	2110	2120	50	2.4	1.2		
	2695	PENT	20	2220	2400	125	2.6	1.3		
5	2695	BOUL	3	0015	0016	2.5	4.0	1.0		
	1420	CRON	3	0331.5	0332.5	1.5	3.0	1.0		
	1000	TYKW	1	0337	0337.4	1	9.0	2.0		
	200	HIRA	27	0337	0408	143	30.0	15.0		
	100	HIRA	27	0350	0535	300 D	85.0	40.0U		
	200	GORK	44	0400		480 D		5.0		
	100	GORK	44	0400 E		300		20.0		
	260	ONDR	44	0630	1114.5	520	95.0			
	245	SGMR	44	1016 E	1839.2	771 D	116.0			
	100	GORK	44	1030		150 D		5.0		
	245	BOUL	42	1242 E	1645	728 D			1	
	268	VORO	44	2200	0141	240	18.0	14.0		
	9100	GORK	1	0621.3	0621.9	1.3	9.0	4.0		
	210	IZMI	6	0827.8	0828	.3	160.0	90.0		
	200	GORK	6	0827.4	0827.5	.6	300.0D			
	113	POTS	45	0827.7	0827.8	.6	600.0	150.0		
	100	GORK	6	0827.5	0828	1	550.0D			
	23	POTS	45	0827.8	0827.8	.8	4000.0	1300.0		
	29	UPIC	45	0828	0828.5	1				
	29	UPIC	5	0834.5	0834.5	.5				
	930	BORD	45	0856	0857.2	2	141.0	2.0		
	950	GORK	4	0857	0857.4	.9	25.0D	12.0		
	100	GORK	44	0900		90		10.0		
	2695	CANR	3	0914	0922.5	15	8.0	2.0		
	4995	CRON	3	0915	0922	14.5	25.0	6.0		
	3000	BERL	21	0915	0921.5	44	8.4	1.7		
	1500	BERL	21	0915.5	0920	1.2	18.0	1.9		
	2695	CRON	3	0916	0922.5	16	7.0	2.0		
	1420	CRON	45	0917.5	0920	2.5	17.0	3.0		
	950	GORK	46	0917.4	0918.2	4.5	13.5			
	950	GORK		0917.4	0919.2		43.0			
	930	BORD	45	0917	0919.8	5	53.0	5.0		
	808	ONDR	45	0917.5	0919.5	6	120.0			
	650	GORK	45	0917.6	0918	4.7	14.0			
	650	GORK		0917.6	0919.2		44.0			
	536	ONDR	45	0917	0919.5	7.5	55.0			
	4995	CANR	3	0918	0922	10	16.0	5.0		
	2830	ARCE	22	0918.3	0921.8	46				
	1420	CANR	45	0918	0920.5	2.5	15.0	5.0		
	408	TRST	42	0918.8	0919	2.2	87.0			
	29	UPIC	45	0918	0918.5	8				
	234	POTS	45	0919.9	0920	.4	250.0	25.0		
	200	GORK	6	0919.5	0919.5	.6	300.0D			
	210	IZMI	6	0920	0920	.7	610.0	500.0		
	9500	BERL	21	0921	0921.5	14	9.4	2.8		
	9285	ARCE	1	0921	0921.9	1.7				
	9285	ARCE	29	0922.7		18.6				
	4995	CANR	3	1028.5	1031	4	5.0	1.0		
	2695	CANR	21	1028.5	1033	11	5.0	1.0		
	234	POTS	45	1114.6	1114.8	.3	175.0	60.0		
	210	IZMI	6	1114.7	1114.8	.7	930.0	700.0		
	100	GORK	6	1114.7	1115	.6	20.0D			
	2800	OTTA	21	1240	1258	225	4.4	2.2		
	8800	SGMR	20	1247	1315	47.6	7.3	3.6		
	4995	SGMR	20	1247.4	1314.7	42.1	14.4	7.2		
	2695	SGMR	20	1254.4	1308.8	42.2	3.1	1.5		
	1415	SGMR	22	1255	1301.7	32.8	9.6	4.6		
	1420	CANR	45	1257	1258	3	4.0	1.0		
	1420	CANR	45	1307.5	1309	2.5	4.0	1.0		
	7000	SAOP	22	1312.8		24.4	13.6			
	4995	CANR	45	1313.5	1317.5	12.5	11.0	3.0		
	2800	OTTA	20	1313	1320	25	2.4	1.4		
	2695	CANR	3	1314.5	1315.5	1.5	2.0	1.0		
	1420	CANR	3	1314	1314.5	1	2.0	1.0		
	113	POTS	45	1314	1314.3	.5	140.0	20.0		
	2800	OTTA	20	1525	1530	23	1.4	0.7		
	2800	OTTA	20	1640	1725	105	3.6	2.0		
	4995	CANR	45	1655	1657	11.5	8.0	2.0		
	18	MCMA	42	1810	1816	9			1	
	245	SGMR	48	1826.4	1832.8	7.1	680.0	90.0		
	9400	HUAN	3	1827.4	1830.3	15.9	24.3	6.8		
	4995	CANR	3	1827.9	1830	5.5	36.0	10.0		
	2695	SGMR	4	1827.9	1830.2	9.5	38.0	15.0		
	1420	BOUL	45	1827	1829	5.5	14.0	4.0		
	1415	SGMR	4	1827.9	1828.8	5.8	13.7	5.2		
	15400	SGMR	20	1828.3	1831.5	8.1	16.1	6.0		
	8800	SGMR	4	1828.3	1830.3	12.5	31.4	13.0		
	4995	SGMR	4	1828.3	1830.2	9.4	59.6	25.0		
	4995	BOUL	45	1828	1830	11.5	70.0	12.0		
	2800	OTTA	4	1828	1830.3	5	43.0	19.0		
	2800	OTTA	29	1833		8	3.2	1.6		
	2800	OTTA	31	1840	1855	60	-2.4	-1.2		
	1420	CANR	45	1828	1829	5	15.0	5.0		
	606	SGMR	4	1828.4	1832.4	5.4	24.8	11.2		

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	410	SGMR	48	1828	1828.8	5.4	1370.0	200.0		
	2695	CANR	45	1830	1833	7	42.0	11.0		
	7000	SAOP	4	1831 E	1831.4	4 U	18.3	9.2		
	18	MCMA	42	1831	1834	24			3	
	18	MCMA	6	1925	1927	3			2	
	2800	OTTA	21	2000	2010	80	8.8	2.9		
	4995	BOUL	3	2003.5	2005	3	14.0	5.0		
	2695	PENT	1	2003.5	2005.5	4	4.4	2.0		
	2695	BOUL	45	2004	2009.5	13	6.0	2.0		
	1420	BOUL	45	2006	2010.5	9	4.0	1.0		
	2800	OTTA	26	2125		20	2.4			
	2695	PENT	20	2305	2350	100	3.2	1.7		
6	1000	TYKW	45	0103	0108.2	7	4 .0	0.5		
	2000	TYKW	1	0107	0108.6	4	3.0	0.5		
	1000	TYKW	45	0113.5	0114.5	4.5	2.0	0.4		
	1000	TYKW	1	0125	0125.2	1	.8	0.3		
	100	HIRA	45	0138.3	0138.7	1.5	190.0	50.0		
	100	HIRA	45	0140.8	0141.3	1.5	120.0	60.0		
	1000	TYKW	45	0141	0141.2	1.5	2.0	0.6		
	1000	TYKW	1	0148	0148.8	2	1.7	0.4		
	4995	CRON	21	0338.5	0340	10	12.0	3.0		
	3750	TYKW	1	0338	0340.3	10	3.0	1.0		
	9400	TYKW	1	0339	0340.3	3	6.0	2.0		
	200	GORK	44	0400 E		540 D		5.0		
	100	GORK	44	0400 E		180 D		5.0		
	260	ONDR	44	0630	1410.5	520	100.0			
	100	GORK	44	0823 E		277 D		5.0		
	245	SGMR	44	1017 E	1410.4	768 D	133.3			
	245	BOUL	42	1242 E	1434	600 D			2	
	100	GORK	6	0429.3	0429.6	.6	50.0	25.0		
	9100	GORK	2	0613	0613.3	1.3	9.0			
	29	UPIC	45	0645.5	0650	5				
	29	UPIC	45	0657	0659	3				
	9285	ARCE	20	0743.3E	0754 U	33.5U				RECORD DIST
	9500	BERL	22	0748	0758.8	17	6.4			
	3000	BERL	3	0750	0751.8	20	7.3	1.8		
	3750	TYKW	45	0751	0752.3	13	7.0	2.0		
	2830	ARCE	3	0751.6	0752.2	1.8				
	2695	CRON	45	0751	0752.5	8.5	7.0	2.0		
	2000	TYKW	1	0751	0752.3	2	4.0	1.0		
	1500	BERL	4	0751	0753	2	11.0	3.5		
	1420	CRON	45	0751.5	0754	4.5	13.0	4.0		
	1000	TYKW	45	0751	0752.6	13	15.0	3.0		
	808	ONDR	45	0751.5	0754	5	80.0			
	536	ONDR	45	0751	0752.5	6	45.0			
	234	POTS	45	0751.5	0751.6	.1	200.0	10.0		
	210	IZMI	41	0751.4	0751.6	.9	400.0			
	2695	CANR	3	0752.5	0753.5	2.5	5.0	2.0		
	1420	CANR	45	0752	0753.5	2	10.0	2.0		
	2830	ARCE	29	0753.4		13				
	113	POTS	45	0753.8	0753.9	.3	150.0	40.0		
	29	UPIC	45	0753.5	0753.5	5				
	29	UPIC	45	0834	0835	2				
	29	UPIC	45	0855	0858	8				
	2830	ARCE	21	0902	0915.2	26				
	9285	ARCE	21	0911.8	0918.5	37 U				
	2695	CRON	3	0911.5	0912.5	2	6.0	2.0		
	9500	BERL	22	0912	0913	12	8.9			
	9285	ARCE	1	0912.9	0913.4	1.2				
	6100	KISV		0912	0913	2.2	195.0			
	4995	CRON	3	0912	0913	2.5	14.0	5.0		
	4995	CANR	3	0912.5	0913.5	2.5	12.0	4.0		
	3000	BERL	1	0912	0913	3	4.3	1.2		
	2830	ARCE	3	0912.6	0913.2	2				
	2695	CANR	3	0912.5	0914	2.5	6.0	2.0		
	1500	BERL	4	0912	0912.5	1.2	8.0	2.2		
	1420	CANR	8	0912.5	0913	1.5	5.0	1.0		
	1420	CRON	8	0912.5	0913.5	1.5	7.0	3.0		
	950	GORK	1	0912.9	0913	.3	1.1	0.6		
	650	GORK	1	0913	0913	.4	19.0	4.6		
	1500	BERL	22	0915	0920	12	3.5			
	3000	BERL	4	0917.5	0920.2	5.5	10.0	2.4		
	2695	CRON	8	0917.5	0918	1.5	16.0	6.0		
	2830	ARCE	45	0918.9	0920.3	5				
	6100	KISV		0919	0919.5	2.2	189.0			
	2695	CANR	45	0920	0921.5	5.5	18.0	6.0		
	1420	CANR	8	0920	0920.5	1.5	3.0	1.0		
	1420	CRON	8	0920	0921	2	5.0	2.0		
	100	GORK	6	1025.3	1025.5	.5	70.0	20.0		
	2800	OTTA	27	1150		260	4.8			
	2800	OTTA	20	1241	1243.5	14	2.4	1.2		
	2695	CANR	45	1242	1244	6.5	4.0	1.0		
	2800	OTTA	20	1300	1304	10	2.0	1.0		
	2695	CANR	3	1302	1304	3.5	2.0	1.0		
	1420	CANR	8	1357.5	1358	1	27.0	10.0		
	1420	CANR	8	1402	1402.5	1	44.0	16.0		
	1420	CANR	8	1404.5	1405.5	1.5	11.0	5.0		
	1420	CANR	8	1408	1408.5	1	36.0	16.0		
	234	POTS	5	1410.3	1410.4	.1	175.0	60.0		

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SEP. 1973	FREQUENCY	STATION	TYPE	STARTING TIME	TIME OF MAXIMUM	DURATION	FLUX DENSITY 10^{-22} Wm^{-2} Hz^{-1}		INT	REMARKS
				UT	UT	MINUTES	PEAK	MEAN		
	18	MCMA	6	1537	1538	2			1	
	7000	SAOP	4	1621.3	1625.4	7.5	24.0	14.9		
	2800	OTTA	21	1622	1640	30	2.2	1.1		
	2695	BOUL	3	1624.5	1626.5	3	4.0	1.0		
	2800	OTTA	1	1625.5	1626	1.5	2.0	1.0		
	2800	OTTA	20	1700	1715	70	2.0	1.0		
	2800	OTTA	22	1815	1845	128	4.4	2.8		
	1420	BOUL	3	1818	1819.5	5.5	3.0	1.0		
	18	MCMA	41	2002	2009	8			1	
	2800	OTTA	20	2030	2110	60	2.0	1.0		
	2695	PENT	20	2300	2307	25	3.0	1.5		
	2000	TYKW	45	2305	2307.3	3.5	4.0	1.0		
	3750	TYKW	1	2306	2307.7	4	3.0	1.0		
7	2695	PENT	27	0000		70	2.4			
	3750	TYKW	20	0200	0213	120	8.0	3.0		
	2000	TYKW	45	0200	0213.3	60	11.0	2.0		
	1000	TYKW	45	0200	0213.3	60	5.0	0.7		
	2695	CRON	3	0208.5	0214.5	13	5.0	2.0		
	4995	CRON	3	0209.5	0213.5	9	8.0	3.0		
	1420	CRON	45	0209.5	0213.5	9	13.0	3.0		
	9400	TYKW	1	0210	0213	7	5.0	2.0		
	100	GORK	44	0400 E		72		5.0		
	200	GORK	41	0409	0409.2	.8	200.0			
	200	GORK		0409	0409.7		70.0			
	2000	TYKW	1	0414	0416.6	5	4.0	1.0		
	1000	TYKW	1	0414	0416.6	5	3.0	1.0		
	9400	TYKW	20	0425	0440	70	4.0	2.0		
	3750	TYKW	20	0425	0440	70	4.0	2.0		
	260	ONDR	44	0640	1141.5	510	125.0			
	100	GORK	44	0848		240 D		5.0		
	245	SGMR	44	1018 E	1430.1	765 D	41.5			
	9100	GORK	21	0841	0910.5	91	60.0	21.0		
	9100	GORK	4	0855.2	0900.4	15.3	237.0	10.7		
	650	GORK	26	1122.3		18				
	4995	CANR	45	1129	1201.5	96	167.0	68.0		
	10700	PENN	28	1137	1153.7	18 D	26.0			
	10700	PENN	45	1155	1200.2	16.7	227.0	137.0		
	10700	PENN	29	1211.7	1211.7	184	75.8	26.5		
	960	PENN	45	1137	1155.2	48 D	88.8			
	2800	OTTA	46	1138	1143.5	7	18.2	9.1		
	2800	OTTA	30	1145		555	9.8	4.9		
	8800	SGMR	23	1139.3	1153.6	90.2	32.2	16.1		
	4995	SGMR	23	1139.3	1153.6	92.5	33.7	16.7		
	2700	PENN	28	1139	1153.5	16 D	32.0			
	2700	PENN	45	1155	1200.3	16.7	381.0	226.0		
	2700	PENN	29	1211.7	1211.7	181	58.7	29.4		
	2695	SGMR	23	1139	1143.8	94	27.3	13.7		
	1500	BERL	46	1139.5	1206	201 D	130.0			
	510	POTS	45	1139	1156.5	39	42.0	7.0		
	410	SGMR	6	1139.9	1141.2	3.6	17.0	6.8		
	9500	BERL	46	1140	1200	200 D	225.0			
	9285	ARCE	28	1140.3	1153.5	14.3				
	9285	ARCE	4	1154.6	1200.1	17.6				
	9285	ARCE	29	1212.2		180				
	8800	ATHN	23	1140.1	1143.6	200.5	24.8	15.5		
	4995	ATHN	23	1140	1143.5	198 U	23.5	16.1U		
	3100	CRIM	47	1140	1201	120	217.0	70.0		
	3000	BERL	46	1140	1200	200 D	340.0			
	2830	ARCE	28	1140.1	1153.5	14.6				
	2830	ARCE	46	1154.7	1200.2	17.2				
	2830	ARCE		1154.7	1200.2	7.5				
	2830	ARCE		1202.2	1202.9	2.8				
	2830	ARCE		1205	1206.2	6.9				
	2830	ARCE	29	1211.9		148 U				
	2695	ATHN	23	1140	1143.8	197.2	25.7	15.8		
	2695	CANR	45	1140	1201.5	90	232.0	70.0		
	1420	CANR	45	1140.5	1207.5	54.5	124.0	28.0		
	1415	SGMR	46	1140.1	1142	5.4	69.0	29.1		
	1415	SGMR	46		1143		72.8			
	1415	ATHN	46	1140	1206.2	32.4	116.0	42.3		
	1415	ATHN	29	1212.4	1212.4	169.4	35.8	10.4		
	650	GORK	46	1140.4	1143.9	46.6	53.0			
	650	GORK		1140.4	1155.6		108.0			
	650	GORK	29	1200	1200	27	24.0			
	606	SGMR	46	1140.1	1142.8	6.4	22.0	11.8		
	550	KIEV	41	1140	1156.5	47	89.0			
	536	ONDR	45	1140	1147	42	85.0			
	408	TRST	27	1140	1156.5	28	140.0			
	245	SGMR	6	1140.1	1140.5	3	249.1	100.4		
	606	SGMR	46		1143.6		29.5			
	234	POTS	45	1140	1157	72	70.0	15.0		
	210	IZMI	49	1140	1140.5	42	610.0	260.0		
	210	IZMI	6	1140	1140.5	1.5	610.0	260.0		
	200	GORK	6	1140.3	1140.6	1.9	450.0	150.0		
	113	POTS	45	1140	1156	68	700.0	30.0		
	100	GORK	49	1140.6	1204.7U	119 U	600.0			
	100	GORK		1140.6	1141.6U	2.9	80.0	20.0		
	808	ONDR	45	1141		45	165.0D			
	260	ONDR	45	1141	1141.5	50	125.0			

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SEP. 1973	FREQUENCY STATION	TYPE	STARTING TIME	TIME OF MAXIMUM	DURATION	FLUX DENSITY 10^{-22} Wm^{-2} Hz^{-1}		INT	REMARKS
			UT	UT	MINUTES	PEAK	MEAN		
	1415 SGMR	46	1145.5	1156.5	40.6	98.2	24.2		
	1415 SGMR	46		1206.2		98.8			
	606 SGMR	46	1146.5	1155.3	46.2	91.4	23.0		
	606 SGMR	46		1157.7		69.8			
	410 SGMR	6	1146.5	1156	35	99.5	16.6		
	245 SGMR	6	1146.3	1157.1	40	76.1	12.5		
	2800 OTTA	28	1148.5	1153.5	6.2	23.0	11.5		
	2800 OTTA	46	1154.7	1200	27.3	325.0	116.0		
	2800 OTTA	29	1222		190	11.4	6.2		
	8800 ATHN	46	1150.5	1200.1	16.4	334.0	157.0		
	8800 ATHN	29	1206.9	1206.9	56.6	164.0	35.7		
	4995 ATHN	46	1150.4	1200.1	17	301.0	157.0		
	4995 ATHN	29	1207.4	1207.4	52.3	83.5	26.8		
	2695 ATHN	46	1150.7	1200.1	19.2	262.0	111.0		
	2695 ATHN	29	1209.9	1209.9	47.5	48.5	12.9		
	210 IZMI	24	1150	1200.2	32	90.0	50.0		
	200 GORK	24	1150.5	1155.4	27.3	250.0	30.0		
	100 GORK		1153	1204.7U	41.8	600.0			
	29 UPIC	45	1153.5		86.5				
	23 POTS	45	1153	1156	32	35000.0	3000.0		
	9400 HUAN	45	1154.4	1200	35.1	238.6	76.3		
	2695 SGMR	46	1154.6	1156.4	24.1	283.8	78.5		
	2695 SGMR	46		1200.1		296.2			
	15400 SGMR	3	1155.1	1200.2	26.3	121.5	48.0		
	10500 BERN	47	1155	1200.1	80	207.0			
	8800 SGMR	46	1155	1156.3	51.3	219.8	53.1		
	8800 SGMR	46		1200.1		268.3			
	4995 SGMR	46	1155	1156.5	41	250.9	78.9		
	4995 SGMR	46		1200		304.1			
	18 MCMA	42	1157	1210	20			3	
	7000 SAOP	2	1242.9	1243.6	2.2	9.7	3.2		
	7000 SAOP	28	1250.4		4.3	11.2			
	7000 SAOP	46	1254.7	1259.8	13	115.9	65.3		
	7000 SAOP	29	1307.7		44.5				
	245 BOUL	41	1333	1335	31			1	
	2800 OTTA	21	1600	1610	60	2.2	1.2		
	2800 OTTA	1	1604	1605	3	2.2	1.1		
	2695 BOUL	3	1604	1605.5	3.5	5.0	2.0		
	2695 CANR	3	1605.5	1606	1.5	3.0	1.0		
	2800 OTTA	22	1705	1720	45	2.6	1.3		
	2800 OTTA	21	1835	1925	80	2.6	1.3		
	2800 OTTA	1	1914.8	1916	4	1.2	0.6		
	2800 OTTA	23	2158	2235	145	3.0	1.7		
	2695 BOUL	21	2249.5	2250	7.5	6.0	2.0		
	2695 PENT	20	2250	2253	10	3.0	2.5		
8	9400 TYKW	1	0237	0238.7	7	7.0	2.0		
	3750 TYKW	1	0237	0238.7	7	2.0	1.0		
	2000 TYKW	45	0237	0238.5	3	9.0	3.0		
	1415 MANI	2	0237.6	0238.5	1.9	7.4	2.0		
	1000 TYKW	1	0237	0238.9	6	1.6	0.5		
	1420 CRON	8	0239.5	0240.5	2.5	8.0	3.0		
	3750 TYKW	1	0337	0337.7	3	1.0	0.5		
	2000 TYKW	1	0420	0420.9	3	4.0	1.0		
	1000 TYKW	1	0420	0420.9	2	2.0	0.6		
	1000 TYKW	1	0440	0440.3	.8	1.6	0.4		
	260 ONDR	41	0640	0947.5	530	25.0			
	9285 ARCE	1	0847.7	0848.4	2				
	29 UPIC	45	1103	1104	6				
	2800 OTTA	21	1205	1238	165	7.4	2.5		
	2800 OTTA	1	1215.5	1218	3.5	5.4	3.0		
	2800 OTTA	29	1219		14	2.8	1.4		
	9500 BERL	20	1210	1237	82	5.1			
	2830 ARCE	22	1211	1217.7	62				
	3000 BERL	22	1215	1235.5	70	5.8			
	2700 PENN	20	1215.5	1218.3	34.3	5.4	2.7		
	1500 BERL	22	1215	1248.4	60	4.3			
	1420 CANR	3	1217.5	1218.5	2	2.0	1.0		
	2695 CANR	3	1218	1219	2	5.0	2.0		
	2800 OTTA	26	1900		25	2.2			
	2695 PENT	27	2135		170	1.8			
9	200 GORK	44	0624		276 D		5.0		
	260 ONDR	44	0630	1017	510	100.0			
	245 SGMR	44	1021 E	1209.4	759 D	54.0			
	234 POTS	45	0741.7	0741.8	.1	130.0	15.0		
	3000 BERL	1	0818.5	0819.3	3.5	3.9	1.1		
	1500 BERL	1	0819	0819.4	1.5	1.9			
	200 GORK	41	1014.6	1015.2	3.8	400.0			
	200 GORK		1014.6	1018.1		400.0			
	225 HARS	45	1016	1016.5	1.5	70.0	15.0		
	225 HARS	45	1034	1034.5	1	65.0	10.0		
	7000 SAOP	32	1506.6		7	-9.0			
	7000 SAOP	32	1513.7		11	-5.6			
	2800 OTTA	22	1657	1706	45	2.0	1.0		
	2800 OTTA	27	1800		140	2.0			
	2800 OTTA	20	2116	2118	14	3.0	1.5		
	2695 BOUL	3	2117.5	2118.5	7	4.0	1.0		
	4995 BOUL	3	2143.5	2147	5.5	29.0	9.0		
	10700 PENN	3	2144.4	2147.5	7.3	14.3	5.4		

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SEP, 1973	FREQUENCY	STATION	TYPE	STARTING TIME UT	TIME OF MAXIMUM UT	DURATION MINUTES	FLUX DENSITY 10^{-22} Wm^{-2} Hz^{-1} PEAK	FLUX DENSITY 10^{-22} Wm^{-2} Hz^{-1} MEAN	INT	REMARKS
	9400	HUAN	20	2144	2147.2	5.2	20.1	7.0		
	2800	OTTA	21	2144	2146.5	22	4.0	1.4		
	1000	TYKW	45	2144	2147.4	5	18.0	4.0		
	960	PENN	8	2144.5	2144.7	.4	2.9			
	270	PENN	3	2144.5	2147.4	7.2	20.4	5.3		
	2695	BOUL	3	2145	2148	8	16.0	6.0		
	1415	SGMR	1	2145.6	2147.4	4.5	7.8	2.3		
	9400	TYKW	3	2146	2147.1	4	15.0	5.0		
	3750	TYKW	45	2146	2147.1	4	18.0	6.0		
	2000	TYKW	1	2146	2147.6	4	7.0	2.0		
	960	PENN	8	2146.3	2146.4	.3	11.7			
	2800	OTTA	3	2147	2147.2	2	13.2	6.6		
	1420	BOUL	3	2147	2147.5	3.5	6.0	2.0		
	960	PENN	3	2147.1	2147.5	1.6	14.6	3.6		
10	2695	CRON	45	0218	0229	20	50.0	14.0		
	1420	CRON	45	0218.5	0230	19.5	16.0	5.0		
	3750	TYKW	45	0219	0230.2	25	85.0	18.0		
	3750	TYKW	29	0244		175	7.0	4.0		
	2000	TYKW	45	0220	0230.3	22	30.0	8.0		
	2000	TYKW	29	0242		175	2.0	1.0		
	1000	TYKW	20	0221	0340	200	8.0	4.0		
	1000	TYKW	45	0221	0235.2	19	11.0	2.0		
	9400	TYKW	45	0223	0230.2	22	54.0	15.0		
	9400	TYKW	29	0245		180	7.0	3.0		
	4995	CRON	45	0223.5	0231	15.5	73.0	20.0		
	9750	IRKU	3	0224	0231	20	52.0	14.0		
	8800	MANI	4	0228 E	0230.3	13.5D	84.0U	27.9D		
	4995	MANI	4	0228 E	0230.3	10.7D	96.0U	26.9D		
	2695	MANI	4	0228 E	0230.4	10.7D	61.0U	22.1D		
	1415	MANI	4	0228 E	0230.4	10.7D	13.7U	4.9D		
	606	MANI	4	0228 E	0235.4	17.2D	11.0U	4.0D		
	500	HIRA	5	0233	0235.4	5	7.0	3.0		
	200	HIRA	45	0234	0235.5	4	10.0	5.0		
	1420	CRON	3	0240.5	0241	1	2.0	1.0		
	606	MANI	41	0249.4	0249.6	11.5	4.5	.9		
	4995	MANI	4	0252.6	0257.3	8.2	15.4	6.4		
	4995	CRON	45	0252	0254.5	5.5	16.0	5.0		
	3750	TYKW	45	0253	0257.2	50	12.0	2.0		
	2695	MANI	2	0253.4U	0257.2U	7.4U	9.2U	1.8U		
	2695	CRON	3	0253.5	0255	4	6.0	2.0		
	1000	TYKW	45	0253	0257.2	23	8.0	2.0		
	9400	TYKW	45	0254	0256.9	10	14.0	4.0		
	8800	MANI	4	0254.4	0256	6.4	18.6	5.6		
	1420	CRON	45	0254	0257	4.5	5.0	1.0		
	2000	TYKW	1	0255	0257	4	4.0	2.0		
	1415	MANI	2	0255.1	0257.2	4.2	5.9	1.5		
	3750	TYKW	20	0520	0523	13	6.0	2.0		
	3100	CRIM	3	0520	0523	11	8.0	3.0		
	2695	CRON	3	0520	0521.5	4	4.0	1.0		
	1420	CRON	45	0520	0522	4	2.0	1.0		
	1420	CRON	45	0520	0523.5	4	2.0	1.0		
	4995	CRON	3	0521	0522.5	2.5	4.0	1.0		
	1000	TYKW	45	0521	0523.8	4	5.0	1.0		
	950	GORK	2	0521.5	0523.8	3.5	7.1	2.2		
	260	ONDR	44	0640	1108	320	45.0			
	245	SGMR	44	1022 E	1237.7	756 D	159.0			
	200	GORK	44	1200		60 D		10.0		
	18	MCMA	42	1227	1238	17			1	
	100	GORK	43	1229.3		46 D		30.0		
	245	BOUL	42	1244 E	1256	115 D			2	
	808	ONDR	5	1107.5	1107.5	.5	65.0			
	2800	OTTA	27	1130		205	5.0			
	950	GORK	20	1133	1136.9	20	5.2	1.9		
	536	ONDR	45	1135.5	1136.5	14	45.0			
	808	ONDR	45	1136	1137	10	60.0			
	650	GORK	3	1136.6	1136.9	1.1	3.6	1.8		
	260	ONDR	44	1200	1426	190	130.0			
	234	POTS	45	1328.7	1328.7	.2	200.0	20.0		
	234	POTS	45	1431.2	1431.2	.1	200.0	30.0		
	2800	OTTA	32	1500	1540	60	-3.4	-1.7		
	7000	SAOP	8	1506	1506.2	.8	14.7			
	2800	OTTA	20	1625	1640	75	2.0	1.1		
	2800	OTTA	27	1800		70	1.0			
	4995	BOUL	3	1843.5	1844.5	2	16.0	5.0		
	2695	SGMR	1	1843.8	1844.6	3.4	6.8	2.1		
	4995	SGMR	3	1844	1844.7	3.5	11.3	3.4		
	2800	OTTA	1	1844	1844.5	2	3.2	1.6		
	2695	BOUL	3	1944.5	1945.5	5	5.0	2.0		
	2800	OTTA	23	1955	2015	75	2.0	1.0		
	2800	OTTA	20	2022	2024.5	20	3.0	1.5		
	9400	HUAN	20	2044.3	2129.1	49.4	10.1	4.6		
	2800	OTTA	27	2125		125	1.8			
11	3750	TYKW	1	0344.5	0345.2	3.5	2.0	1.0		
	2000	TYKW	1	0344.5	0345.3	3.5	1.0	0.4		
	9100	GORK	20	0351.8	1413.9	25.3	18.8	6.0		
	100	GORK	44	0357 E		47.7E		5.0		
	9100	GORK	1	0446.2	0447.7	5	9.4	4.7		
	950	GORK	1	0450.6	0450.8	.3	8.7	4.3		

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SEP. 1973	FREQUENCY STATION	TYPE	STARTING TIME	TIME OF MAXIMUM	DURATION	FLUX DENSITY 10^{-22} Wm^{-2} Hz^{-1}		INT	REMARKS
			UT	UT	MINUTES	PEAK	MEAN		
11	9100 GORK	20	0526	0541.4	84	52.0	31.0		
	29 UPIC	45	0622	0625	6				
	260 ONDR	41	0630	1448	520	40.0			
	9400 TYKW	20	0635	0700	65	13.0	7.0		
	2695 MANI	40	0648.2	0703.7	18.5	17.9	5.1		
	1415 MANI	40	0648.2	0658	21	15.5	4.3		
	9285 ARCE	22	0649.7	0658.4	115 U				RECORD DIST
	2695 CRON	45	0649.5	0602	14.5	14.0	4.0		
	2000 TYKW	45	0649	0656.9	40	15.0	3.0		
	1000 TYKW	45	0649	0653.8	20	20.0	5.0		
	4995 MANI	4	0650.5	0658.3	15.8	31.8	11.8		
	3750 TYKW	45	0650	0656.9	50	12.0	3.0		
	3100 CRIM	45	0650	0657	55	15.0	5.0		
	3100 CRIM	29	0650	0704		14.0			
	1500 BERL	40	0650	0653.7	17	12.0			
	1420 CRON	45	0650	0658.5	17.5	10.0	3.0		
	950 GORK	46	0650	0654	23.7	30.0	6.0		
	950 GORK		0650	0658.2		14.5			
	950 GORK		0650	0703.8		13.0			
	606 MANI	40	0650.7U	0654.5U	23.8	36.9U	1.4U		RFI
	8800 MANI	4	0651.6	0657.9	14.1	19.2	8.0		
	3000 BERL	40	0651	0703.5	48	12.0			
	9500 BERL	22	0652	0658.2	43	11.0			
	6100 KISV		0652	0658.5	15	170.0			
	2695 ATHN	22	0652.6	0657	38	13.3	4.4		
	1415 ATHN	22	0652.7	0653.6	15.7	10.5	3.5		
	650 GORK	41	0653	0654	13	8.8			
	650 GORK		0653	0658.1		5.4			
	650 GORK		0653	0704		5.4			
	4995 CRON	45	0654.5	0658	13.5	9.0	4.0		
	4995 CRON	45	0654.5	0703.5	13.5	9.0	4.0		
	8800 ATHN	22	0655.6	0657.8	44.5	12.9	4.8		
	4995 ATHN	22	0655.6	0658.2	28.6	11.9	3.2		
	2830 ARCE	22	0656 E	0704	81 U				
	113 POTS	45	0701.5	0703	12	200.0	40.0		
	100 HIRA	45	0702	0704.2	7	170.0	40.0		
	100 GORK	41	0702.2	0702.5	4.2	120.0D			
	100 GORK		0702.2	0704.4		1200.0D			
	100 GORK		0702.2	0704.7		1500.0			
	4995 CRON	3	0725.5	0727	2	6.0	2.0		
	18 MCMA	41	1252	1253	2			1	
	2800 OTTA	27	1420		120	2.0			
	245 SGMR	43	1652.5	2056.7	363.5D	94.7			
	245 BOUL	42	1739	1925	357			2	
	4995 SGMR	1	1653.2	1653.5	1.9	6.1	1.8		
	2800 OTTA	1	1653.2	1653.3	1	3.6	1.2		
	2695 SGMR	1	1653.2	1653.5	2	5.9	1.8		
	2800 OTTA	21	1830	2030	275	5.0	2.5		
	2800 OTTA	21	2110.7	2112	35	2.0	1.0		
	2800 OTTA	1	2110.7	2111.2	.8	1.8	0.9		
	2695 PENT	1	2252	2252.1	1	1.4	0.7		
12	3750 TYKW	1	0336	0336.2	2	2.0	1.0		
	950 GORK	1	0455.8	0456	.3	6.7	3.8		
	3100 CRIM	3	0809	0810	2	13.0	4.0		
	18 MCMA	6	1246	1248	2			1	
	2800 OTTA	26	1528		60	1.7			
	2700 PENN	8	1933.5	1933.7	.5	34.6		1	
	18 MCMA	6	1942	1943	2				
	2695 PENT	22	2305	2350	135	3.8	1.6		
	3750 TYKW	20	2344	2349	12	4.0	1.0		
13	950 GORK	1	0506	0506.2	.4	4.8	2.4		
	950 GORK	20	1128.1	1130.6	43.5	6.0	3.0		
	100 GORK	6	1244.6	1244.8	.5	25.0	10.0		
	18 MCMA	6	1259	1301	2			1	
	2800 OTTA	20	1310	1322	45	1.4	0.7		
	2800 OTTA	21	1505	1507	60	2.0	1.0		
	2695 BOUL	45	1505.5	1512	10	6.0	2.0		
	2695 CANR	45	1506	1511.5	14	6.0	2.0		
	2800 OTTA	1	1509	1511.5	5	2.8	1.4		
14	3750 TYKW	20	0227	0228.9	25	4.0	1.0		
	2000 TYKW	20	0227	0228.9	25	4.0	1.0		
	2695 MANI	3	0228.2	0228.8	3	10.0	2.7		
	2695 CRON	3	0228	0229	7.5	8.0	3.0		
	1415 MANI	1	0228.2	0228.6	1.3	3.5	.4		
	3750 TYKW	1	0305	0306	3	4.0	2.0		
	237 TRST	45	1106.4	1106.6	.5	95.0	33.0		
	2800 OTTA	27	1250		150	1.4			
	208 VORO	24	2325	2334	26	9.4	7.0		
15	2000 TYKW	45	0047	0048.2	5	2.0	1.0		
	1000 TYKW	45	0047	0048.2	5	2.0	0.6		
	2000 TYKW	45	0118	0118.3	3.5	1.4	0.6		
	1000 TYKW	45	0118	0120.7	3.5	1.3	0.5		
	3750 TYKW	45	0140	0200	60	3.0	1.0		
	1000 TYKW	1	0207	0208.7	4	1.4	0.4		
	2000 TYKW	1	0208	0208.7	2	1.5	0.5		
	2000 TYKW	45	0522	0523.9	10	3.0	0.7		

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SEP. 1973	FREQUENCY	STATION	TYPE	STARTING TIME	TIME OF MAXIMUM	DURATION	FLUX DENSITY 10^{-22} Wm^{-2} Hz^{-1}		INT	REMARKS
				UT	UT	MINUTES	PEAK	MEAN		
	1000	TYKW	45	0522	0525.6	10	2.0	1.0		
16	2695	BOUL	3	0026.5	0028	2.5	4.0	1.0		
	3750	TYKW	1	0259	0259.4	1	3.0	1.0		
	7000	SAOP	41	1708.3	1740	33	41.5			
	7000	SAOP	4	1708.3	1712.5	7.5	6.9	3.4		
	7000	SAOP	3	1719.3	1722.4	5.7	11.5	5.8		
	7000	SAOP	3	1729.8	1730.8	6.9	18.4	8.1		
	7000	SAOP	3	1738.8	1740	3.1	41.5	21.9		
	18	MCMA	42	1744	1747	7			1	
17	7000	SAOP	2	1109.4	1111.2	2.1	14.9	6.9		
	18	MCMA	42	1513	1521	17			1	
18	7000	SAOP	8	1051.9	1052	.2	22.9			
	7000	SAOP	8	1122	1122.2	.4	22.9			
	100	GORK	48	1212.7	1212.9	1.7	55.0			
	2695	PENT	20	2240	2345	85	1.2	0.6		
19	237	TRST	42	1042.7	1043.4	2.2	150.0			
	208	VORO	24	2231	2232	1	23.0	14.0		
20	100	GORK	6	1116	1116.1	.2	140.0	70.0		
	113	POTS	45	1209.2	1209.3	.5	150.0	20.0		
	100	GORK	6	1209.3	1209.4	.5	140.0D	70.0		
	260	ONDR	45	1340	1340.5	2	80.0			
	237	TRST	45	1340	1340.5	1.1	150.0	38.0		
	113	POTS	45	1340.4	1340.5	.8	1400.0	280.0		
	930	BORD	5	1701	1701.4	1	12.0	1.0		
21	2695	CANR	3	0729.5	0733.5	8.5	4.0	1.0		
	4995	CANR	3	0730	0733.5	6	9.0	3.0		
	1420	CANR	3	0732.5	0733.5	3	2.0	1.0		
	100	GORK	6	1024.7	1024.9	.4	20.0	10.0		
	100	GORK	6	1029.8	1030.5	1.1	15.0	10.0		
	200	GORK	6	1030.1	1030.4	.9	55.0	20.0		
	100	GORK	6	1258.1	1258.2	.4	15.0	10.0		
22	2695	PENT	2	0012	0014	3	2.0	1.2		
	29	UPIC	45	0632.5	0633.5	1.5				
	9400	HUAN	20	1603.4	1645.6	81.6	10.2	3.7		
23	1415	MANI	1	0307.7	0307.9	.7	1.0	.5		
	606	MANI	40	0307.7	0307.9	1.8	12.0	4.8		
	18	MCMA	6	1406	1407	2			1	
	9400	HUAN	20	1528.8	1538.3	26.5	6.9	3.9		
	930	BORD	5	1532	1532.8	1	10.0	1.0		
	2800	OTTA	22	1555	1625	60	1.8	0.9		
	2800	OTTA	22	1715	1805	75	2.2	1.1		
	410	SGMR	6	1748.8	1750	3.7	18.6	5.6		
	245	SGMR	6	1748.5	1749.7	3.6	18.3	5.5		
	606	SGMR	1	1749.8	1750	.7	9.1	2.0		
	18	MCMA	6	1752	1755	5			3	
24	29	UPIC	45	0531.5	0535	4.5				
	200	GORK	41	0537.8	0538	3.1	100.0			
	200	GORK		0537.8	0539.2		100.0			
	200	GORK		0537.8	0548		150.0			
	200	GORK	48	0546.9	0548	1.8	150.0D	40.0		
	100	GORK	41	0625.8	0626	1.9	10.0			
	100	GORK		0625.8	0629.4		25.0			
	237	TRST	42	0637.9	0641	3.7	520.0			
	200	GORK	41	0639.8	0640.1	2.1	100.0			
	200	GORK		0639.8	0641.3		500.0			
	100	HIRA	45	0639.5	0641.2	3	220.0	50.0		
	100	GORK	48	0639.8	0641.5U	2.3	2300.0			
	260	ONDR	45	0640	0641	2.5	95.0			
	234	POTS	45	0640.5U	0640.8U	1 U	350.0	50.0		
	225	HARS	45	0640	0641	2.5	75.0	25.0		
	200	HIRA	45	0640	0641.2	2.5	850.0	50.0		
	29	UPIC	45	0640		3.5				
	100	GORK	6	0717.2	0718	.6	35.0			
	29	UPIC	45	0826	0826.5	1				
	260	ONDR	41	1000	1058.5	97	25.0			
	100	GORK	41	1037.7	0539.2U	11	25.0D			
	100	GORK		1037.7	0548 U		25.0D			
	2800	OTTA	27	1245		125	1.8	1.2		
	2800	OTTA	24	1540		35	2.0			
	2800	OTTA	24	1615		240	2.0			
	2800	OTTA	22	1732	1810	83	2.0	0.9		
	1420	CANR	3	1819.5	1821.5	4	7.0	3.0		
	4995	CANR	3	1820	1821.5	4	14.0	5.0		
	2695	CANR	3	1820	1822	3.5	14.0	5.0		
	2800	OTTA	24	2015		140	1.8			
	2800	OTTA	24	2235		150 D	1.8			
25	3750	TYKW	20	0130	0200.1	90	10.0	4.0		
	1000	TYKW	40	0130	0141.2	20	21.0	1.0		
	2000	TYKW	45	0135	0142.3	15	6.0	2.0		
	2695	CRON	3	0158.5	0159.5	3.5	5.0	2.0		

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SEP. 1973	FREQUENCY STATION	TYPE	STARTING TIME UT	TIME OF MAXIMUM UT	DURATION MINUTES	FLUX DENSITY 10^{-22} Wm^{-2} Hz^{-1} PEAK	FLUX DENSITY 10^{-22} Wm^{-2} Hz^{-1} MEAN	INT	REMARKS
	9400 TYKW	1	0159	0200	10	3.0	1.0		
	4995 CRON	3	0159	0159.5	2.5	6.0	2.0		
	208 VORO	6	0206	0206.7	1.5	150.0			
	200 HIRA	45	0206	0207	3	250.0	70.0		
	100 HIRA	45	0206.5	0206.9	1.5	220.0	50.0		
	200 HIRA	45	0339.2	0339.8	1.5	120.0	30.0		
	100 HIRA	45	0339	0339.7	2	170.0	50.0		
	200 GORK	44	0400		75		5.0		
	100 GORK	48	0651.3	0653.5	2.9	200.0	100.0		
	260 ONDR	45	0710	0738.5	50	20.0			
	100 GORK	6	0754.5	0754.8	.7	180.0			
	260 ONDR	45	0937	1000.5	86	25.0			
	100 GORK	6	1243.3	1243.4	.2	170.0	80.0		
	18 MCMA	6	1516	1517	2			1	
	2800 OTTA	27	1520		360	1.0			
	2695 SGMR	2	1604.6	1604.9	.7	3.0	.9		
	1415 SGMR	4	1604.7	1605	.6	24.6	7.4		
	2700 PENN	20	1722	1817.6	82.4	7.7	4.5		
	18 MCMA	6	1801	1803	5			1	
	2800 OTTA	20	1806	1811	24	2.2	1.1		
	2700 PENN	8	2105.6	2105.7	.2	4.6			
	960 PENN	8	2105.4	2105.8	.6	19.8			
26	100 GORK	6	0544.1	0545	1.6	30.0			
	260 ONDR	41	0700	0957	260	35.0			
	100 GORK	41	0903.7	0905.7	13.6	60.0			
	100 GORK		0903.7	0908.9		80.0			
	29 UPIC	45	0904	0909	7				
	29 UPIC	45	0926	0927.5	2.5				
	930 BORD	45	1446	1446.1	1	55.0	2.0		
	930 BORD	45	1452	1452.8	1	85.0	2.0		
	7000 SAOP	22	1705.3		78.4	20.2			
	2800 OTTA	22	1705	1720	45	1.2	0.7		
	2700 PENN	45	1746.9	1752.3	10.8	13.6	1.2		
	2800 OTTA	24	2105		10	1.4			
	2800 OTTA	24	2115		240 D	1.4			
27	200 GORK	6	0646	0647.4	1.4	100.0	40.0		
	200 GORK	6	0727	0727.5	1	50.0	20.0		
	210 IZMI	6	0729.9	0730	.2	24.0			
	113 POTS	45	0729.5U	0729.8U	.5U	200.0	40.0		
	100 GORK	6	0730	0730	.4	100.0D			
	237 TRST	45	0834.7	0834.9	.4	130.0	37.0		
	210 IZMI	6	0834.9	0835	.5	40.0	20.0		
	260 ONDR	5	0835	0835	.5	20.0			
	29 UPIC	45	0835	0835.5	1				
	260 ONDR	45	0913	0942	42	35.0			
	2830 ARCE	1	1107.2	1108.3	1.6				
	113 POTS	40	1354.8U	1356.5U	3.7U	700.0	20.0U		
	29 UPIC	45	1355	1357	3				
	260 ONDR	5	1356	1356	.5	45.0			
	237 TRST	45	1356.5	1356.7	.6	50.0	7.0		
	2695 PENT	20	2223	2245	40	1.8	0.9		
28	200 GORK	6	0532.6	0532.7	.4	300.0	100.0		
	100 GORK	6	0532.7	0532.9U	.6	70.0D			
	200 GORK	41	0539.2	0539.3	2.4	100.0			
	200 GORK		0539.2	0541.3		150.0			
	100 GORK	6	0541.2	0541.4	.5	70.0			
	29 UPIC	45	0821	0821.5	1				
	260 ONDR	45	0823	0824	3.5	20.0			
	200 GORK	6	0941.2	0941.5	.6	70.0	35.0		
	100 GORK	6	0941	0941.7	.9	90.0D	25.0		
	260 ONDR	5	1031	1031	.5	20.0			
	260 ONDR	5	1118	1118	.5	25.0			
29	3750 TYKW	1	0019	0020	3	3.0	1.0		
	260 ONDR	41	0714	0904	114	20.0			
	100 GORK	41	0734.3	0734.3	1.4	10.0			
	100 GORK		0734.3	0735.5		40.0			
	260 ONDR	41	1300	1409	75	20.0			
	2800 OTTA	20	1405	1420	75	2.4	1.2		
	2800 OTTA	22	1540	1605	65	2.0	1.0		
	2695 BOUL	3	1758	1759.5	5.5	4.0	1.0		
	208 VORO	44	2326	0115	154	9.0	8.0		
30	200 GORK	44	0400 E		75		5.0		
	3750 TYKW	20	0523	0618	120	9.0	4.0		
	2000 TYKW	20	0530	0618	110	5.0	2.0		
	260 ONDR	44	0640	1142	510	75.0			
	200 GORK	6	0643.9	0644.2	1	160.0	80.0		
	9500 BERL	1	1125	1125.2	4.5	7.7			
	3000 BERL	1	1125	1125.2	1	1.1			
	1500 BERL	1	1141.5	1143.5	4.5	2.1			
	3000 BERL	1	1142.5	1143	3.5	1.1			
	536 ONDR	45	1142	1143	2	50.0			
	408 TRST	41	1142.4	1143.5	1.6	30.0			
	237 TRST	41	1142.6	1142.7	1.4	56.0			
	2800 OTTA	21	1420	1445	90	3.4	2.0		
	2800 OTTA	21	1517	1522	15	1.6	0.8		

SOLAR RADIO EMISSION
OUTSTANDING OCCURRENCES

SEPTEMBER 1973

SEP. 1973	FREQUENCY	STATION	TYPE	STARTING TIME	TIME OF MAXIMUM	DURATION	FLUX DENSITY 10^{-22} Wm^{-2} Hz^{-1}		INT	REMARKS
				UT	UT	MINUTES	PEAK	MEAN		
30	2800	OTTA	1	1517	1518	2	.8	0.4		
	2800	OTTA	20	1602	1710	120	2.0	1.0		
	2800	OTTA	20	1855	1945	125	2.0	1.0		
	3750	TYKW	1	2318	2318.9	2	3.0	1.0		
	2695	PENT	1	2318	2319	2	1.8	0.9		
	2000	TYKW	1	2318	2318.9	2	1.4	0.4		

Observatories:

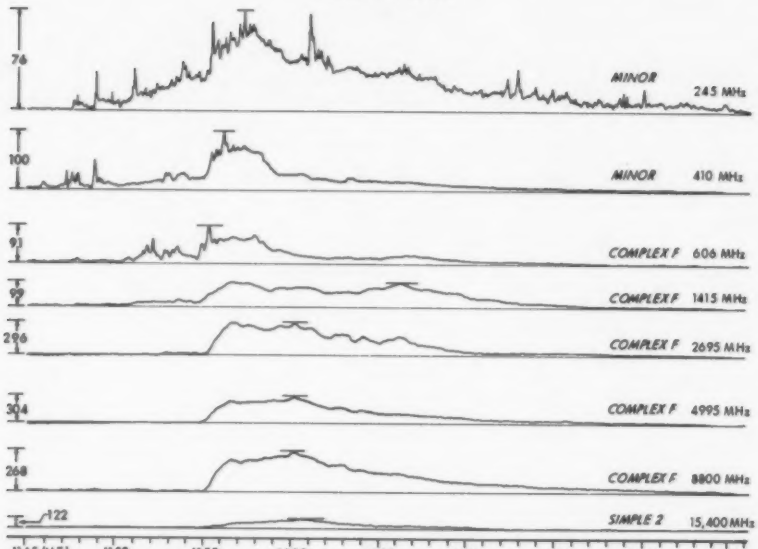
ARCE = Arcetri
BERL = Berlin-Adlershof
BERN = Berne
BORD = Bordeaux
BOUL = Boulder
CANR = Canary Islands
CRIM = Simferopol
CRON = Carnarvon
GORK = Gorky
HARS = Harestua
HIRA = Hiraiso
KISV = Kislovodsk
HUAN = Huancayo
IRKU = Irkutsk
IZMI = Moscow IZMIRAN
KIEV = Kiev
MANI = Manila
MCMA = McMath-Hulbert
ONDR = Ondrejov
OTTA = Ottawa ARO
PENN = Penn. State Univ.
PENT = Penticton
POTS = Potsdam
SAOP = Sao Paulo
SGMR = Sagamore Hill
TRST = Trieste
TYKW = Toyokawa
UPIC = Upice
VORO = Voroshilov

Explanation of Type Code:

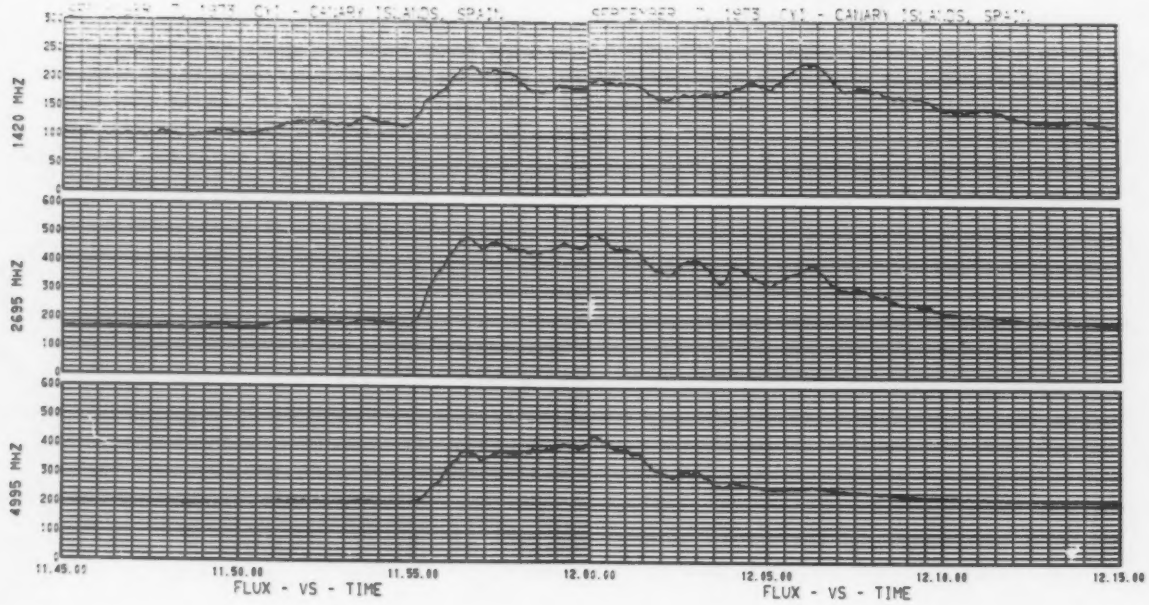
1 Simple 1
2 Simple 1F
3 Simple 2
4 Simple 2F
5 Simple
6 Minor
7 Minor +
8 Spike
20 Simple 3
21 Simple 3A
22 Simple 3F
23 Simple 3AF
24 Rise
25 Rise A
26 Fall
27 Rise and Fall
28 Precursor
29 Post Burst Increase
30 Post Burst Increase A
31 Post Burst Decrease
32 Absorption
40 Fluctuation
41 Group of Bursts
42 Series of Bursts
43 Onset of Noise Storm
44 Noise Storm in Progress
45 Complex
46 Complex F
47 Great Burst
48 Major
49 Major +

SELECTED SOLAR NOISE BURSTS

SEPTEMBER 7, 1973



RADIO BURST, 7 SEPTEMBER, 1973 - SAGAMORE HILL OBSERVATORY AT HAMILTON, MASSACHUSETTS

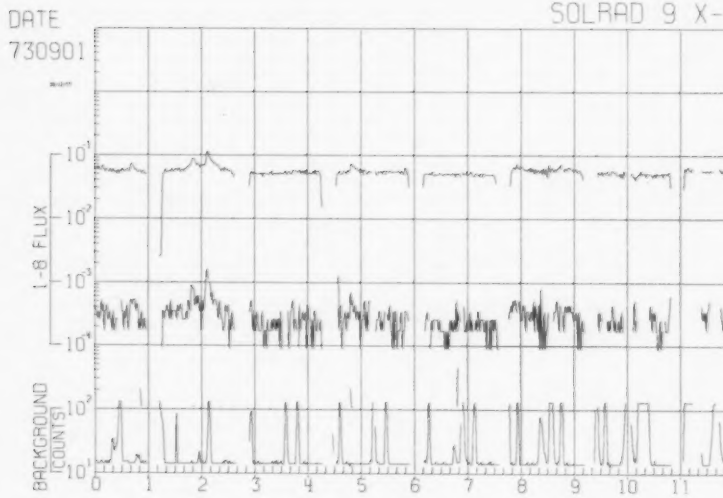


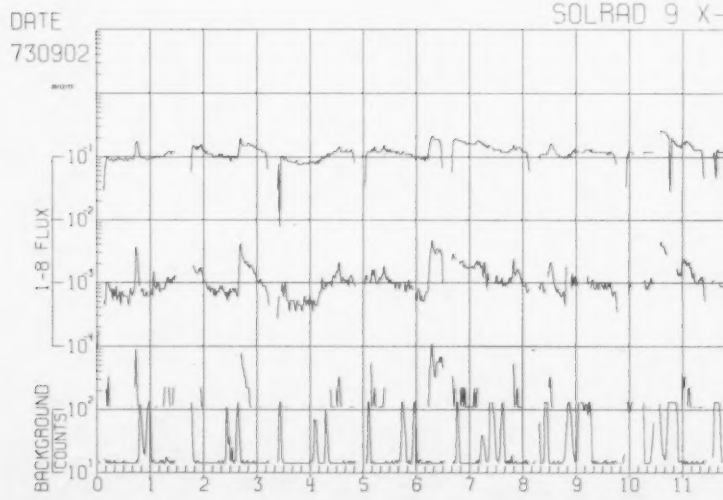
FLUX - VS - TIME

FLUX - VS - TIME

SOLAR X-RAYS MEASURED BY SAT

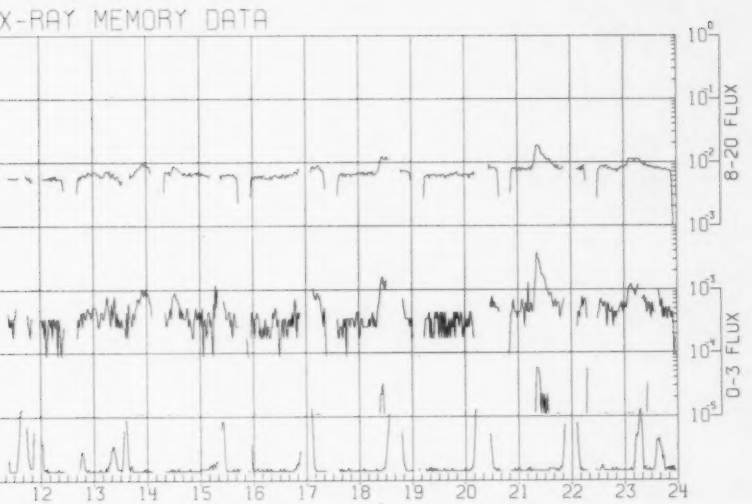
SEPTEM

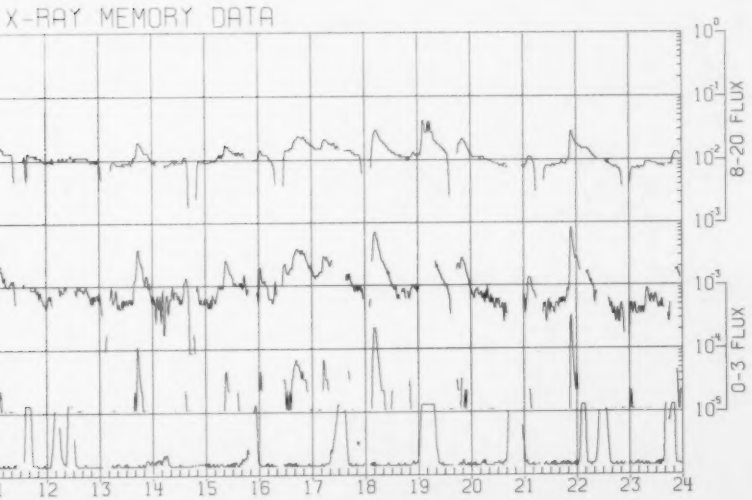




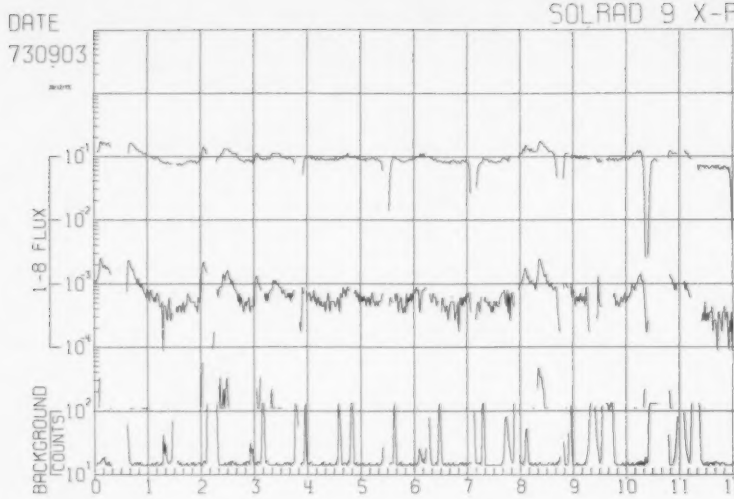
ATELLITE SOLRAD 9 - EXPLORER 37

EMBER 1973





37
Sep 73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1-8 FLUX
BACKGROUND
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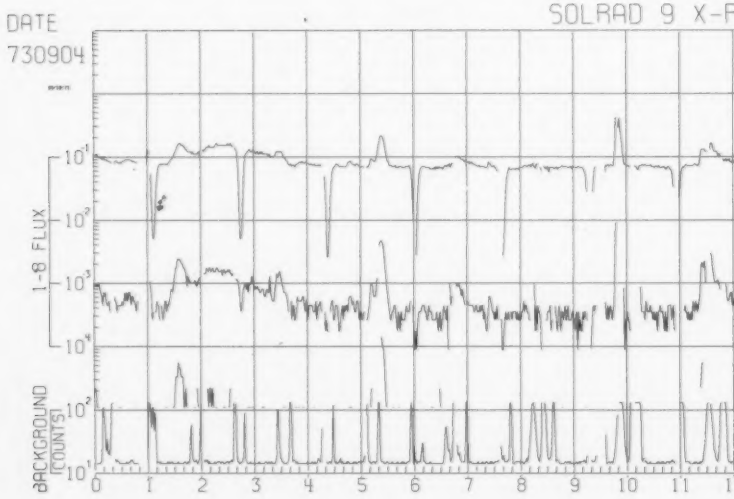
DATE
730904
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1-8 FLUX
BACKGROUND
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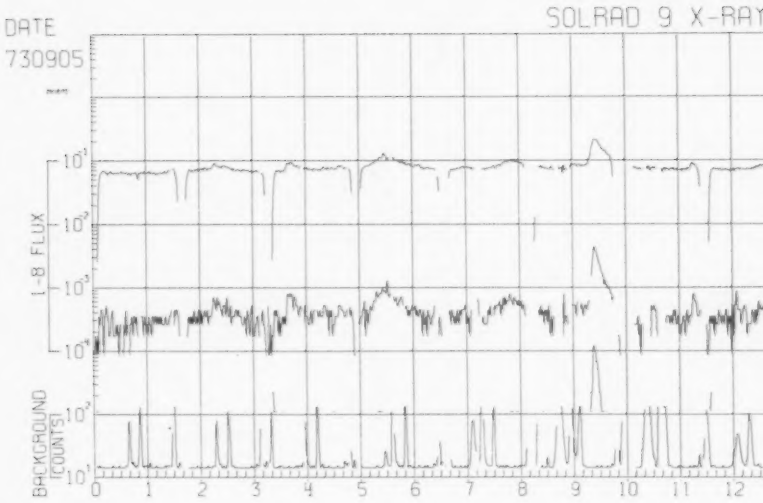
38
Sep 73

-RAY MEMORY DATA

-RAY MEMORY DATA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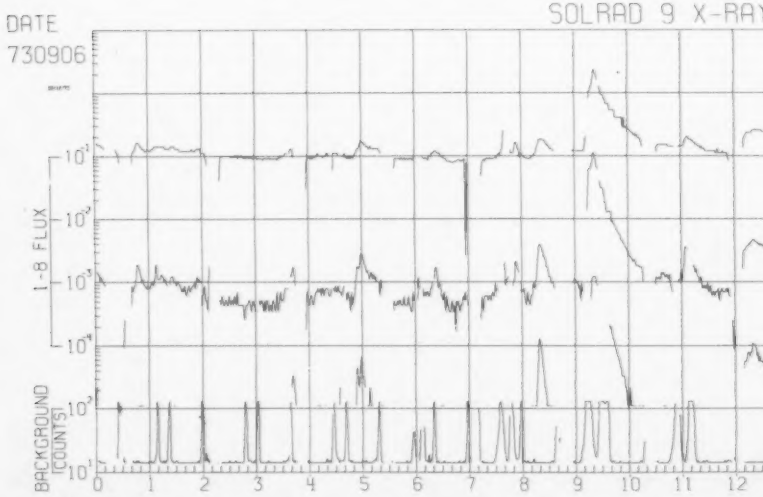
DATE
730906
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1-8 FLUX
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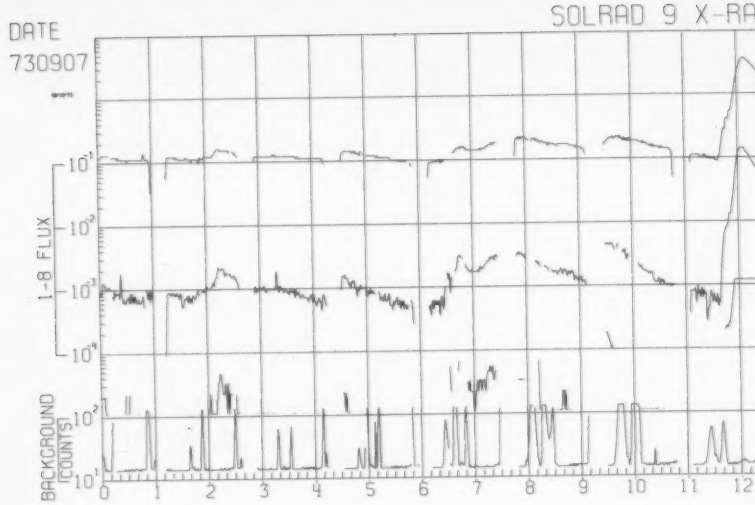
RAY MEMORY DATA

RAY MEMORY DATA

39
Sep 73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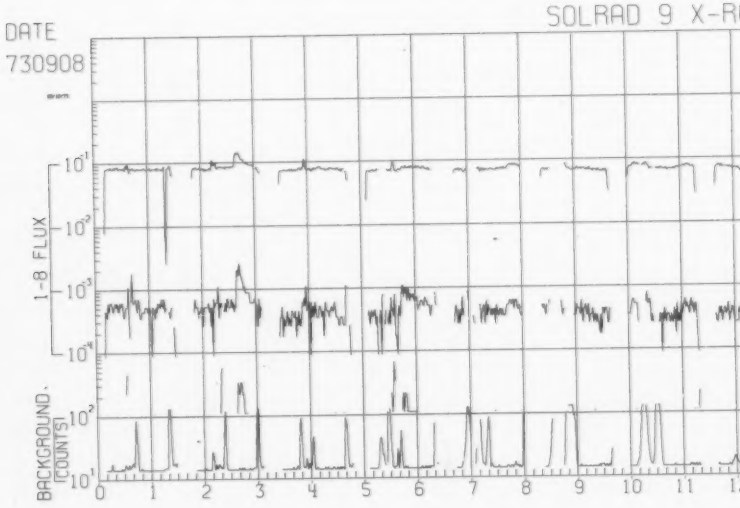
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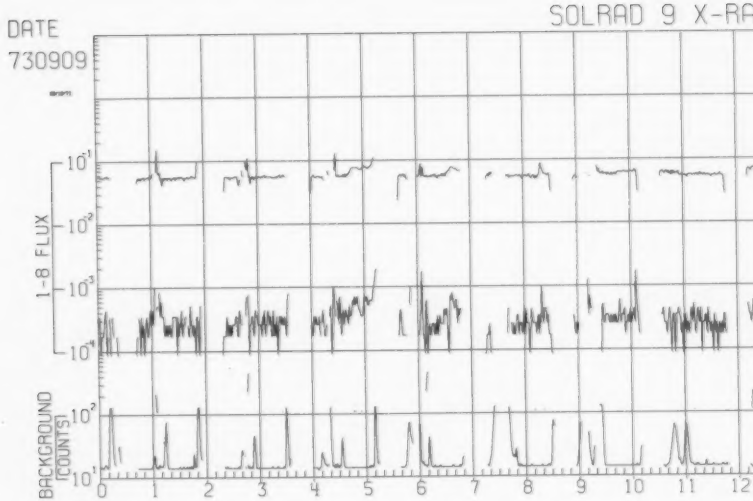
RAY MEMORY DATA

-RAY MEMORY DATA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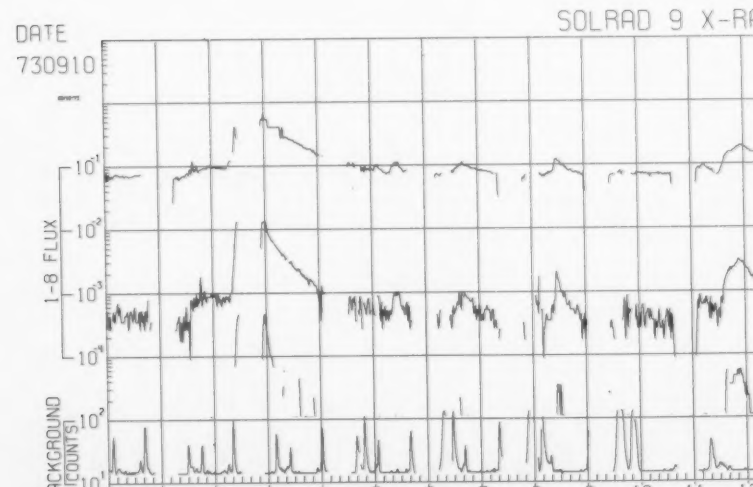
10
11
12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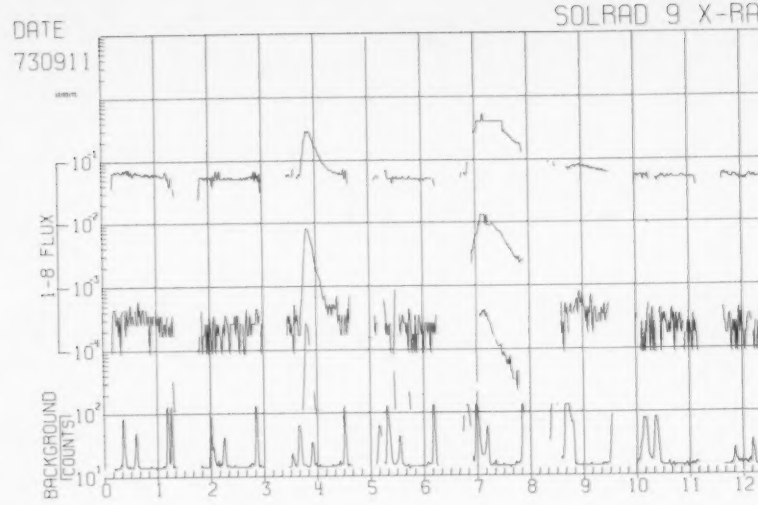
6
7
8
9
10
11

RAY MEMORY DATA

-RAY MEMORY DATA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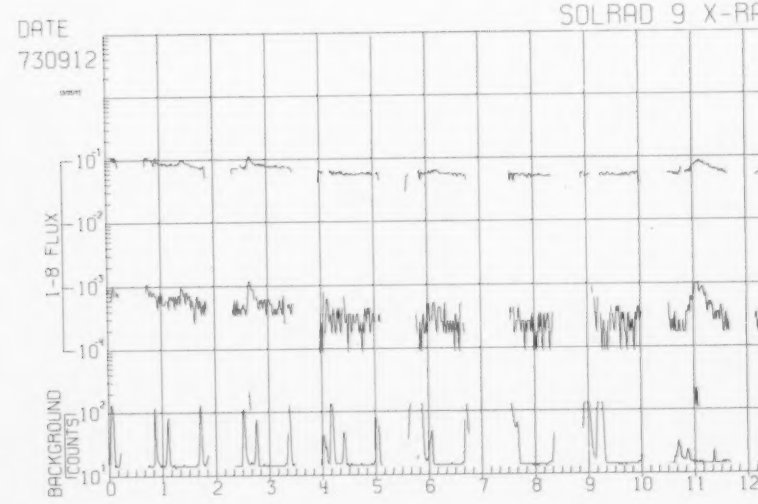
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1-8 FLUX
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0 1 2 3 4 5 6 7 8 9 10 11 12

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Sep 73

RAY MEMORY DATA

10^{0}
10^{1}
10^{2}
10^{3}
8-20 FLUX

10^{3}
10^{4}
10^{5}
0-3 FLUX

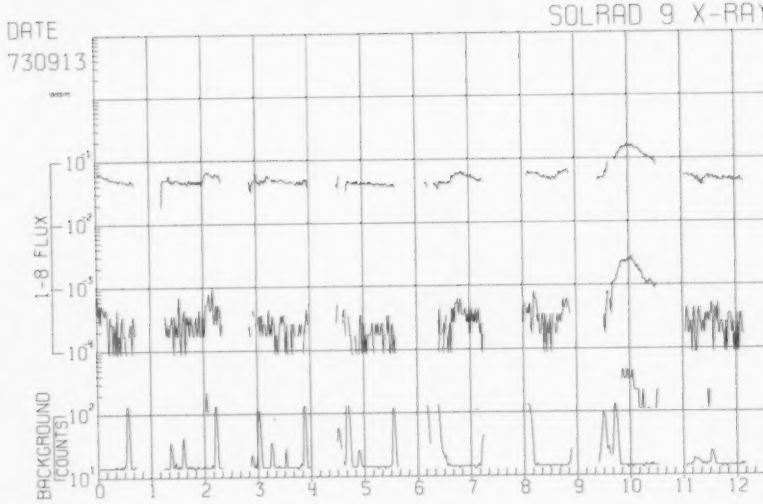
12 13 14 15 16 17 18 19 20 21 22 23 24

RAY MEMORY DATA

10^{0}
10^{1}
10^{2}
10^{3}
8-20 FLUX

10^{3}
10^{4}
10^{5}
0-3 FLUX

12 13 14 15 16 17 18 19 20 21 22 23 24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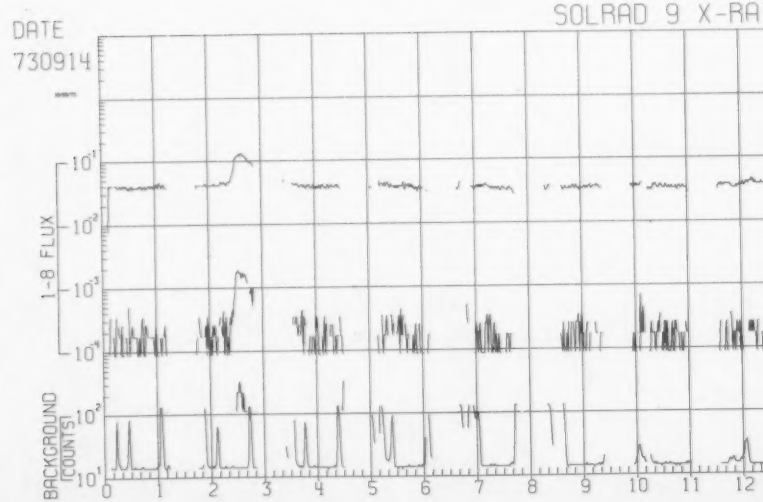
DATE
730914
SOLRAD 9 X-RA
1-8 FLUX
BACKGROUND (COUNTS)
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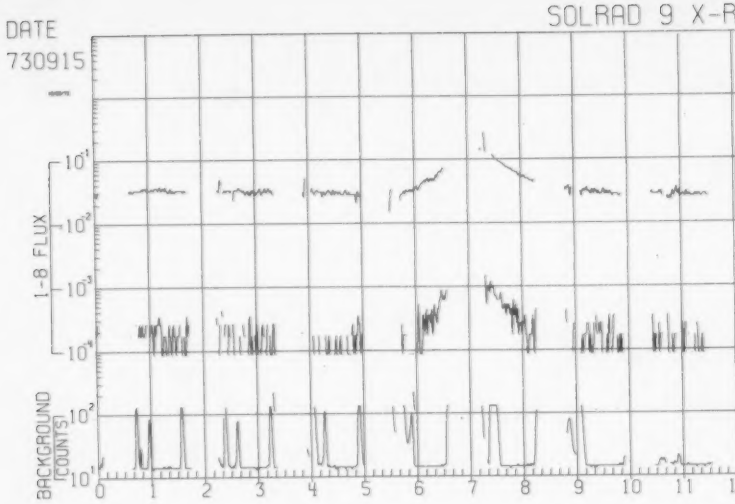
RAY MEMORY DATA

RAY MEMORY DATA

43
Sep 73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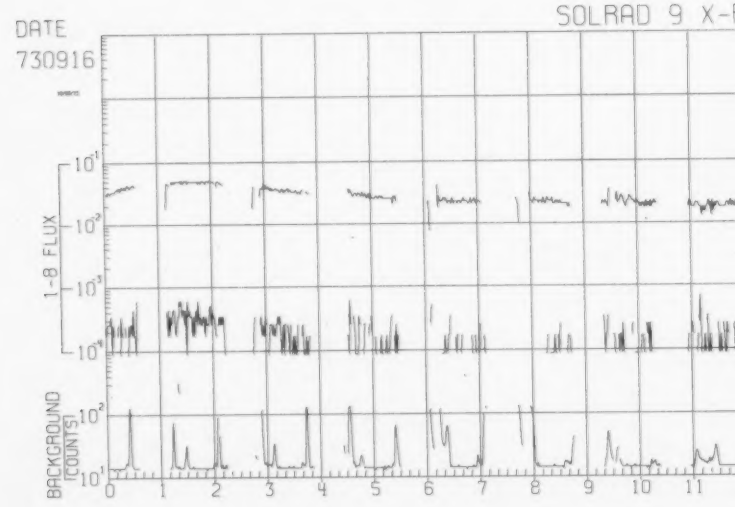
DATE
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SOLRAD 9 X-
1-8 FLUX
BACKGROUND
(COUNTS)
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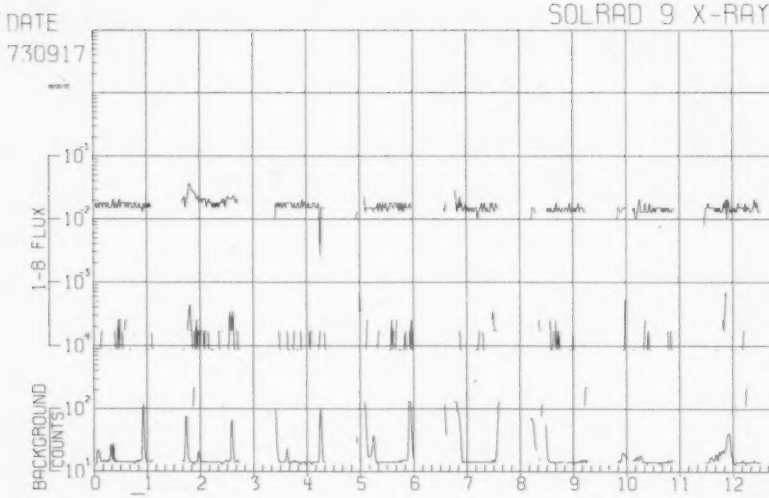
-RAY MEMORY DATA

X-RAY MEMORY DATA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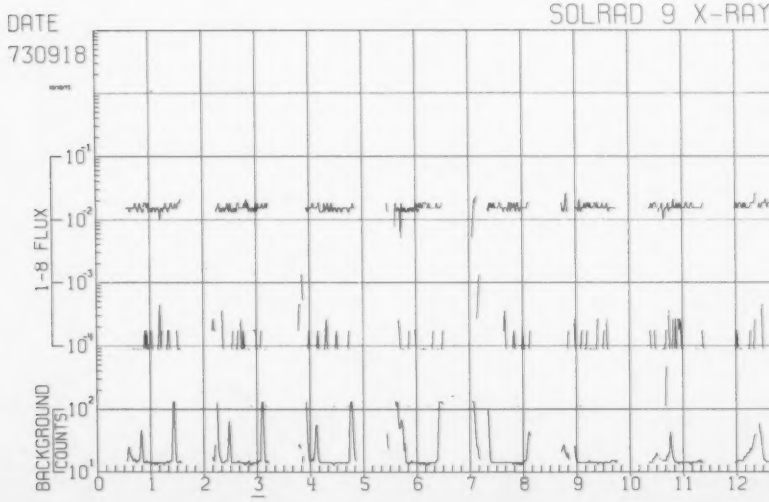
DATE
730918
SOLRAD 9 X-RAY
1-8 FLUX
BACKGROUND (COUNTS)
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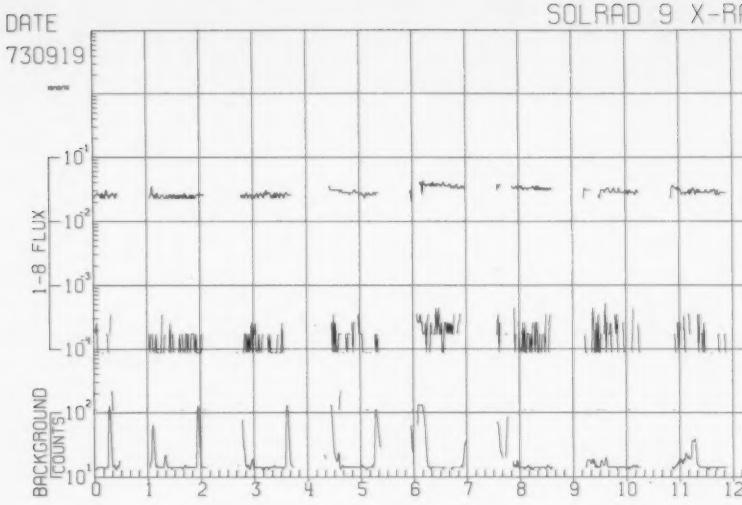
AY MEMORY DATA

AY MEMORY DATA

45
Sep 73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1-8 FLUX
BACKGROUND (COUNTS)
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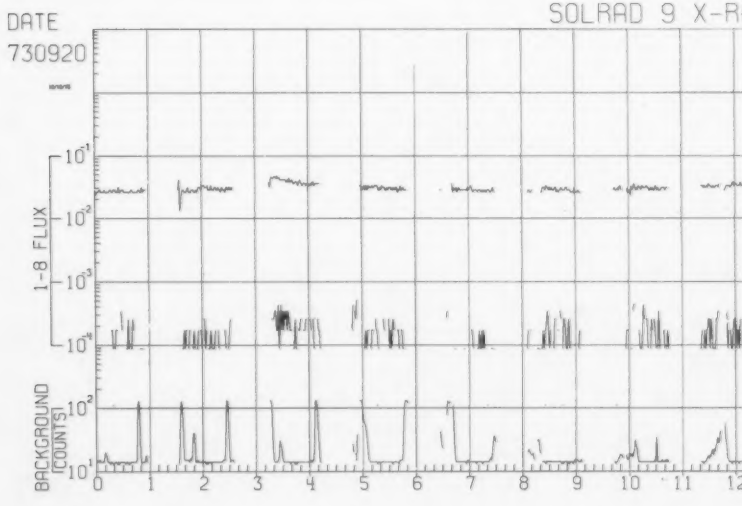
DATE
730920
SOLRAD 9 X-R
1-8 FLUX
BACKGROUND (COUNTS)
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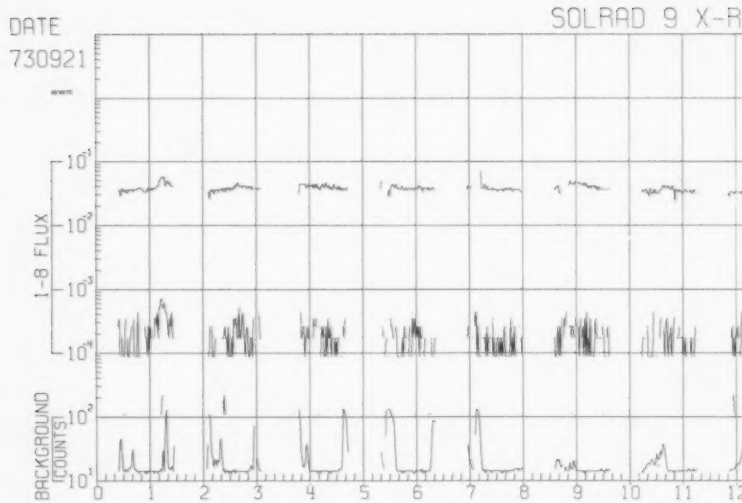
-RAY MEMORY DATA
8-20 FLUX
0-3 FLUX
12 13 14 15 16 17 18 19 20 21 22 23 24

-RAY MEMORY DATA
8-20 FLUX
0-3 FLUX
12 13 14 15 16 17 18 19 20 21 22 23 24


DATE
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SOLRAD 9 X-R
1-8 FLUX
BACKGROUND (COUNTS)
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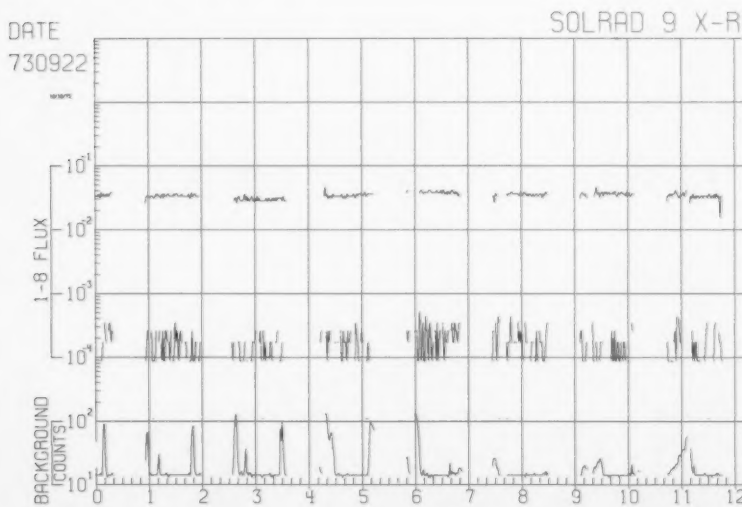
DATE
730922
SOLRAD 9 X-R
1-8 FLUX
BACKGROUND (COUNTS)
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-RAY MEMORY DATA

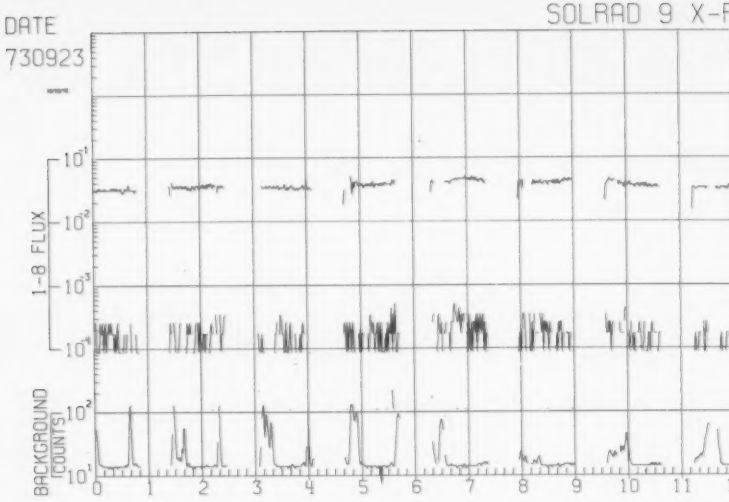
10^{0}
10^{1}
10^{2}
10^{3}
8-20 FLUX
10^{3}
10^{4}
10^{5}
0-3 FLUX

12 13 14 15 16 17 18 19 20 21 22 23 24

-RAY MEMORY DATA

10^{0}
10^{1}
10^{2}
10^{3}
8-20 FLUX
10^{3}
10^{4}
10^{5}
0-3 FLUX

12 13 14 15 16 17 18 19 20 21 22 23 24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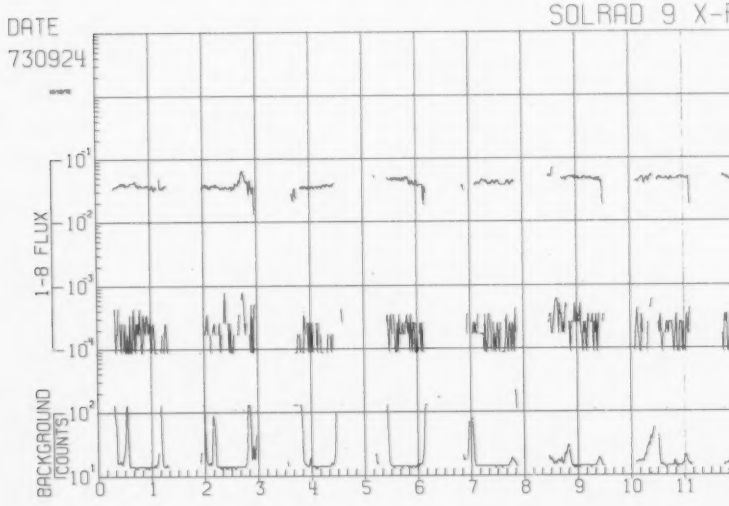
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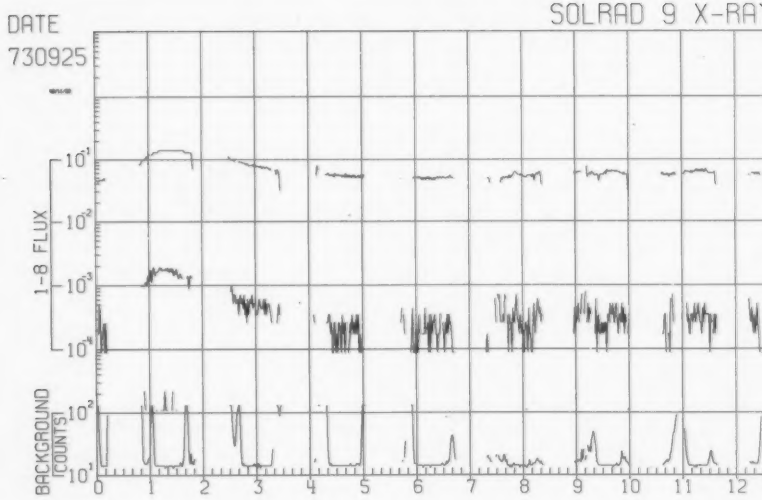
48
Sep 73

X-RAY MEMORY DATA

X-RAY MEMORY DATA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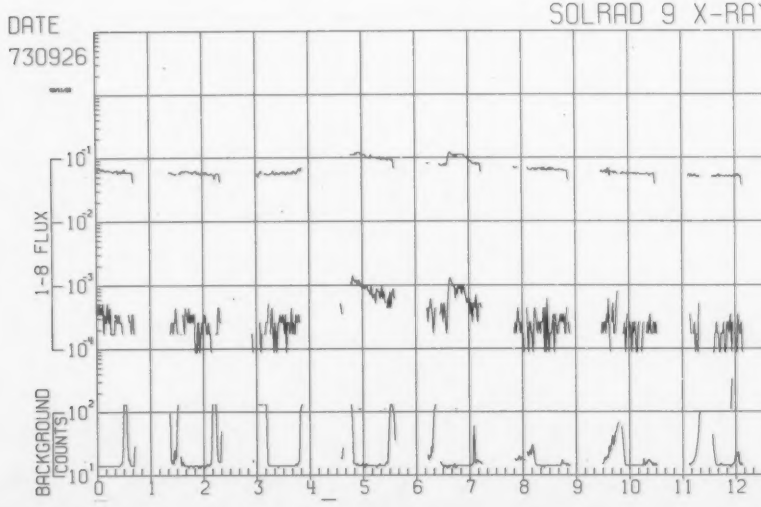
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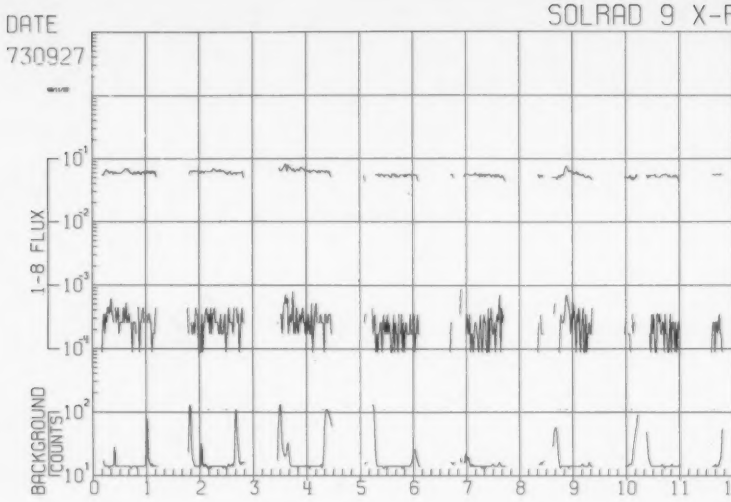
RAY MEMORY DATA

RAY MEMORY DATA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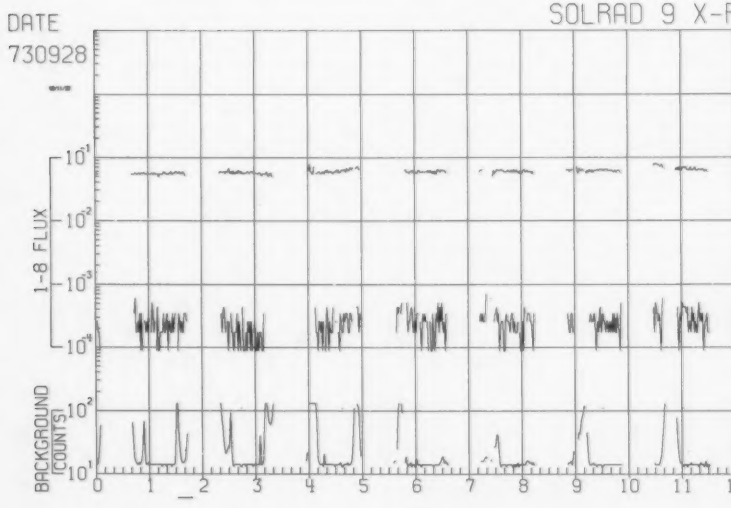
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BACKGROUND (COUNTS)
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50
Sep 73

X-RAY MEMORY DATA

8-20 FLUX

0-3 FLUX

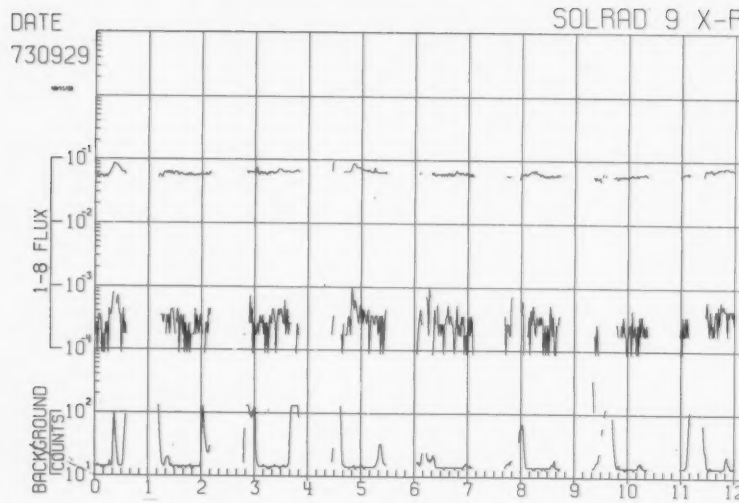
12 13 14 15 16 17 18 19 20 21 22 23 24

X-RAY MEMORY DATA

8-20 FLUX

0-3 FLUX

12 13 14 15 16 17 18 19 20 21 22 23 24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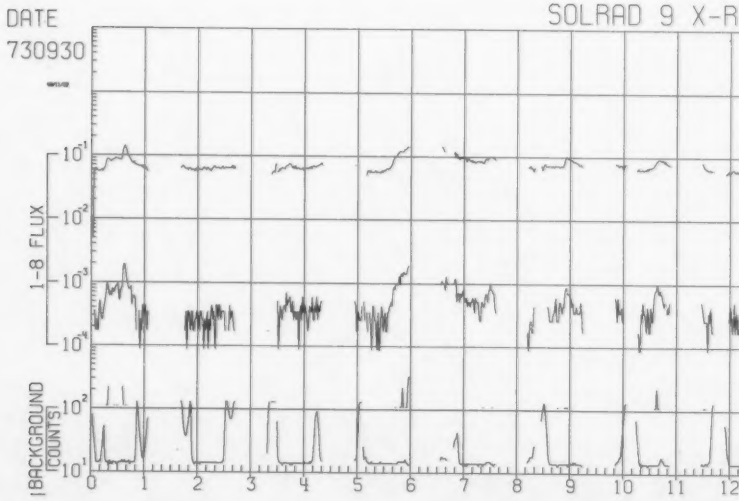
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-RAY MEMORY DATA
8-20 FLUX
0-3 FLUX
12 13 14 15 16 17 18 19 20 21 22 23 24

-RAY MEMORY DATA
8-20 FLUX
0-3 FLUX
12 13 14 15 16 17 18 19 20 21 22 23 24

AUGUST 1973 DATA

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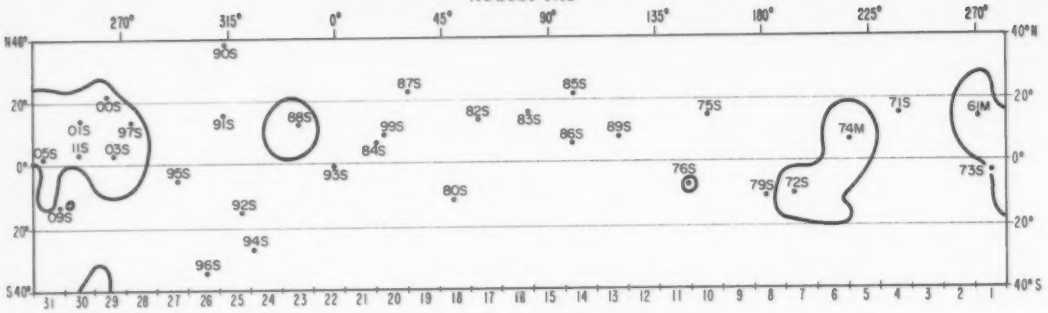
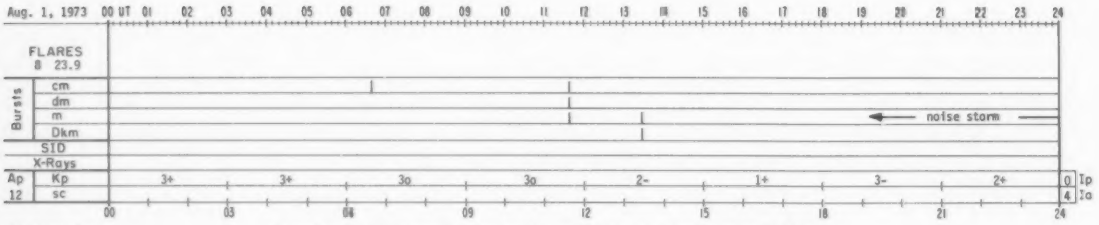
For explanations of the data contained herein see *Descriptive Text* published as supplement to February 1974 *Solar-Geophysical Data* (Number 354).

ABBREVIATED CALENDAR RECORD

AUGUST 1973

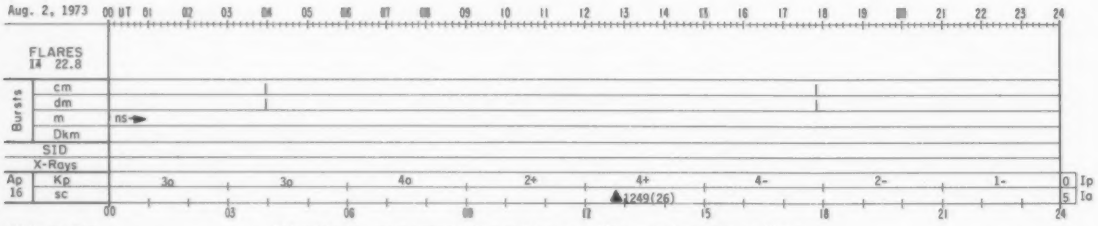


Day of Central Meridian Passage



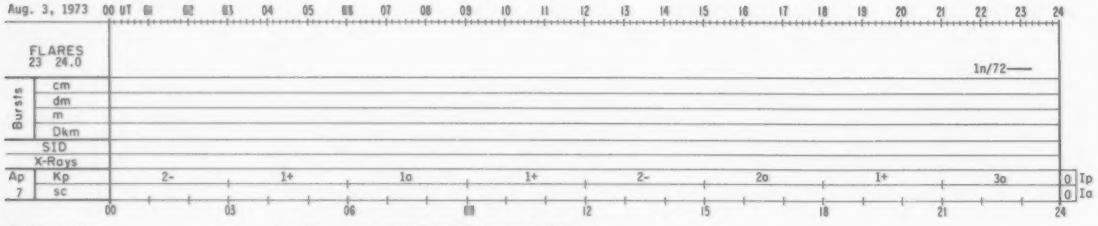
84 10 cm flux
36 Rz
CMP (12473) S03
12461 N13 (3) 19231 N10 (α)2
19233 N18 (α)2

Moderately br. green corona 7 days earlier on NE limb and 7 days later on NW limb.



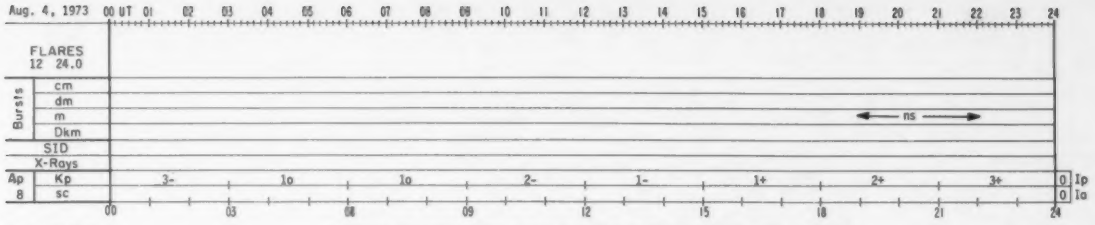
84 10 cm flux
28 Rz

Moderately br. green corona 7 days earlier on E. limb and 7 days later on NW limb.

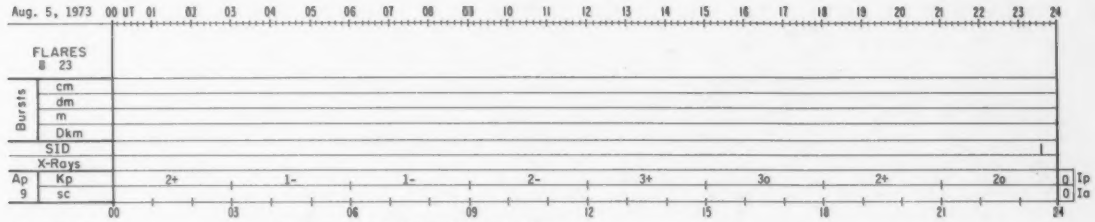


82 10 cm flux
21 Rz

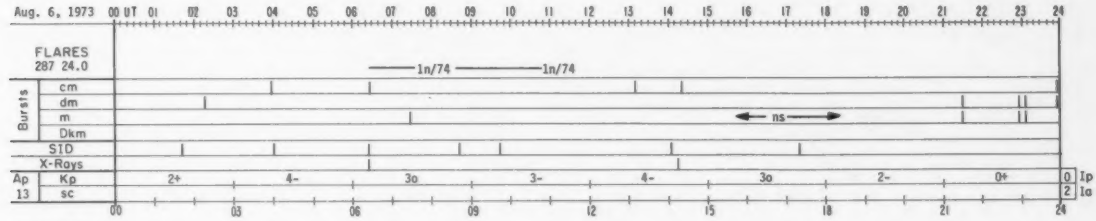
Very br. green corona 7 days later on NW limb.



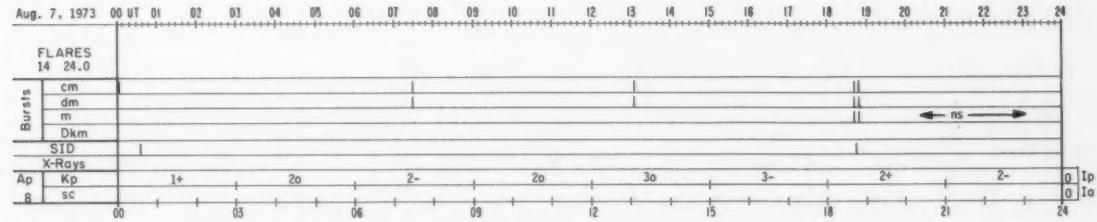
84 10 cm flux
28 Rz
CMP 12471 N15 (19237) N14 (αp)1 CMP Aug. 3

Moderately br. green corona 7 days earlier on NE limb and 7 days later on NW limb.

83 10 cm flux
34 Rz

No coronal data 7 days earlier on E. limb.

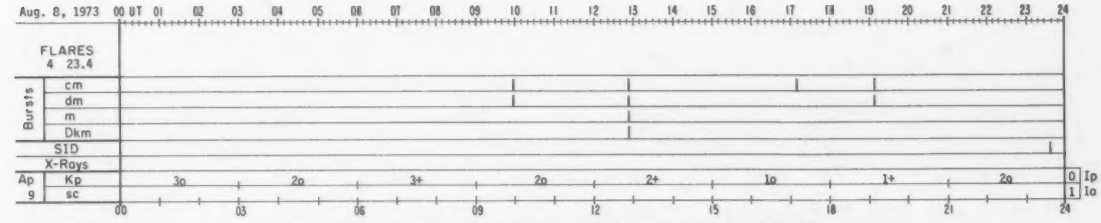


86 10 cm flux
40 Rz
CMP 12474 N07 19235 N06 (βp)4 CMP Aug. 5
(12478) N45



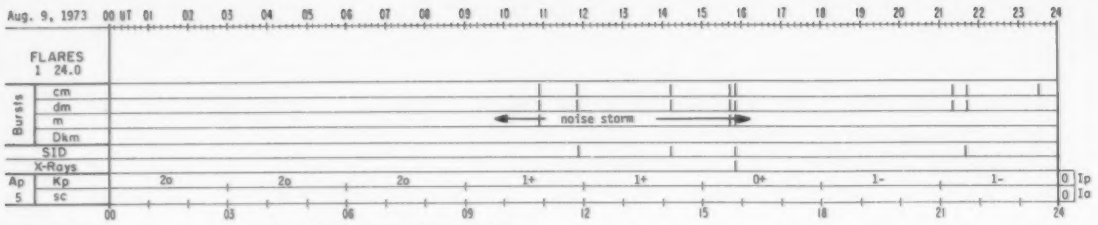
88 10 cm flux
42 Rz
CMP 12472 S10 (2) 19234 S11 (βp)5

No coronal data 7 days earlier on E. limb.



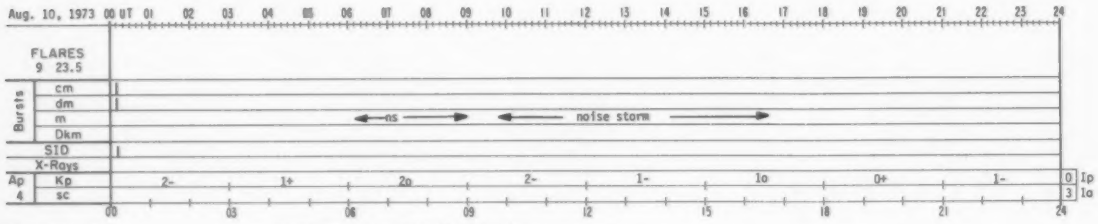
85 10 cm flux
40 Rz
CMP (12479) S11

Moderately br. green corona 7 days earlier on SE limb and 7 days later on SW limb.



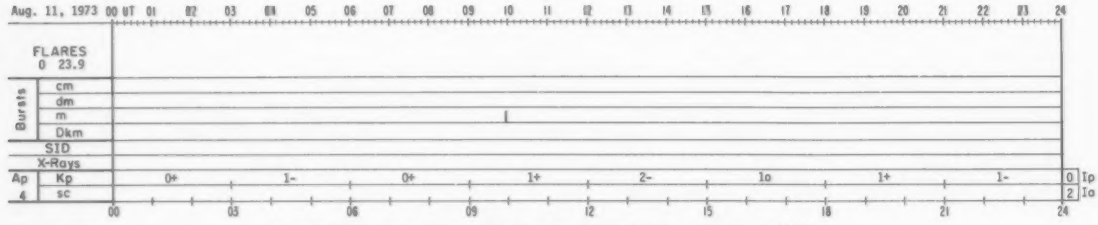
85 10 cm flux
38 Hz

One of ten most magnetically quiet days.



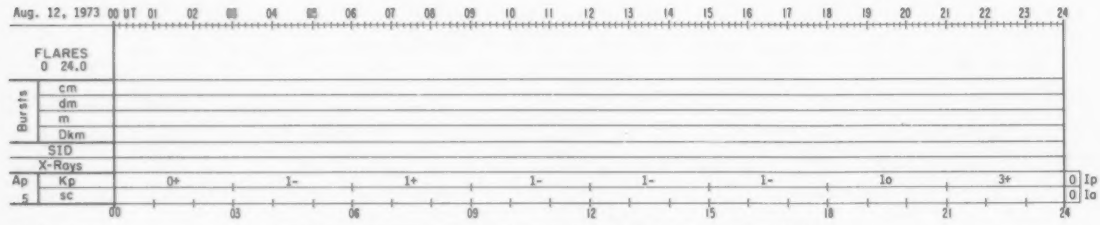
81 10 cm flux
27 Hz
CMP 12475 N15 (7)

One of ten most magnetically quiet days.



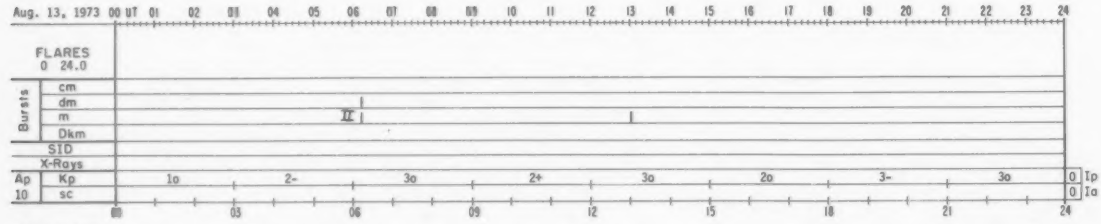
77 10 cm flux
23 Hz
CMP 12476 S07 19236 S08 (βp 1

One of five most magnetically quiet days; no coronal data 7 days later on W. limb.



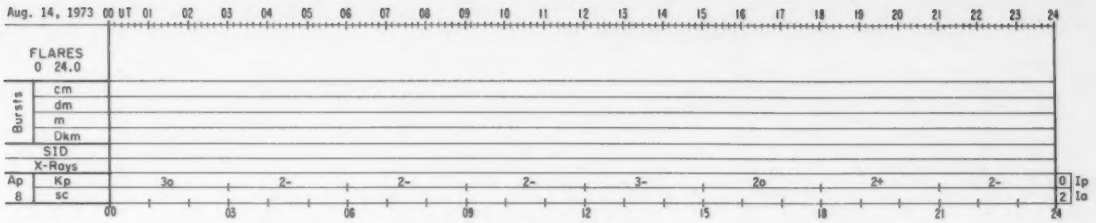
74 10 cm flux
0 Hz

One of ten most magnetically quiet days; no coronal data 7 days later on W. limb.



73 10 cm flux
0 Hz
CMP (12489) N08

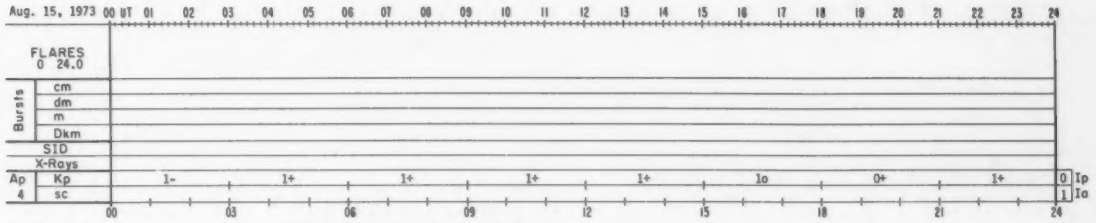
19238 S09 (β) 1 (spot observed with
no accompanying plage)



72 10 cm flux
0 Rz
CMP (12485) N22
(12486) N07

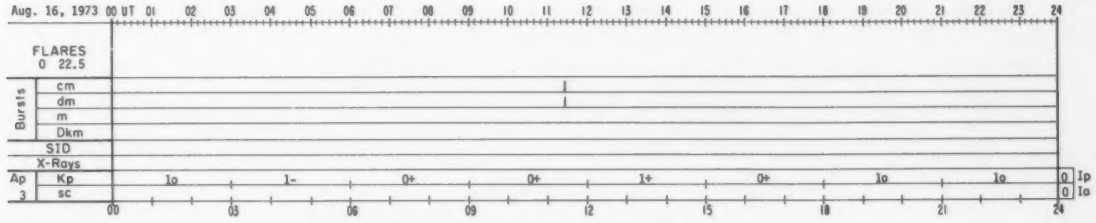
No coronal data 7 days later on W. limb.

N14 (spot observed with no accompanying plage)



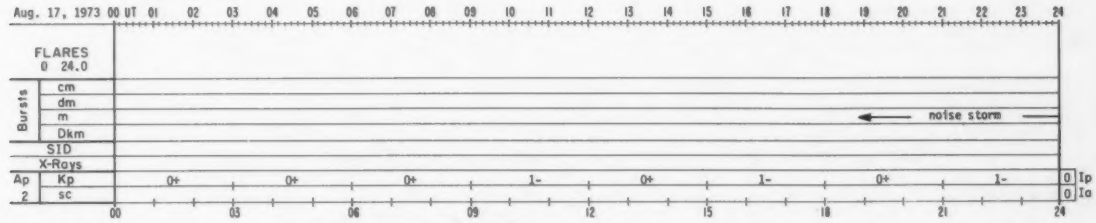
71 10 cm flux
0 Rz

One of five most magnetically quiet days.



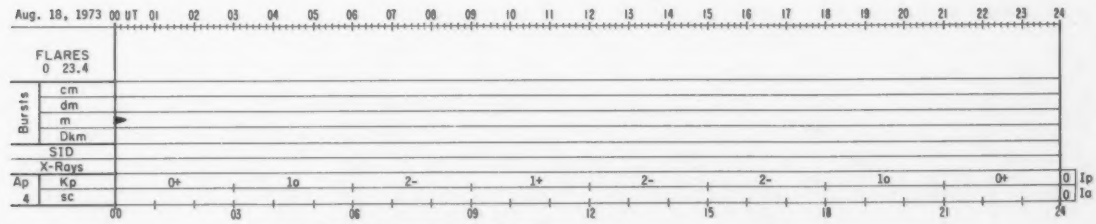
72 10 cm flux
0 Rz
CMP (12483) N17 (19239) N17 (αp)1

One of five most magnetically quiet days.



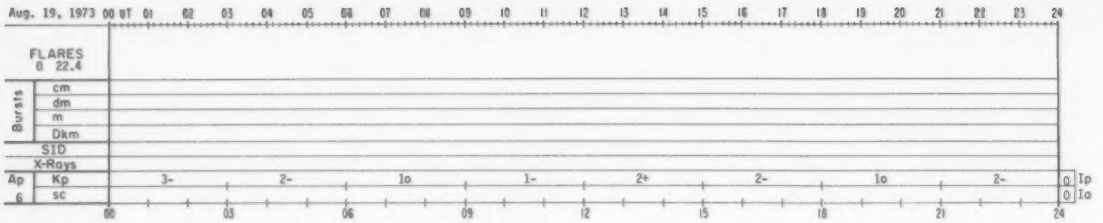
73 10 cm flux
0 Rz
CMP 12482 N14

One of five most magnetically quiet days.



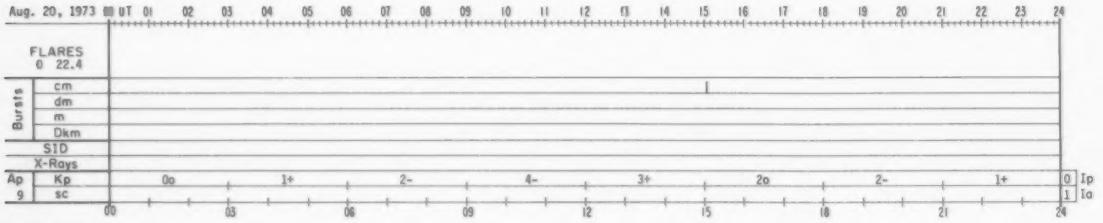
74 10 cm flux
7 Rz
CMP 12480 S12 (3)

One of five most magnetically quiet days.



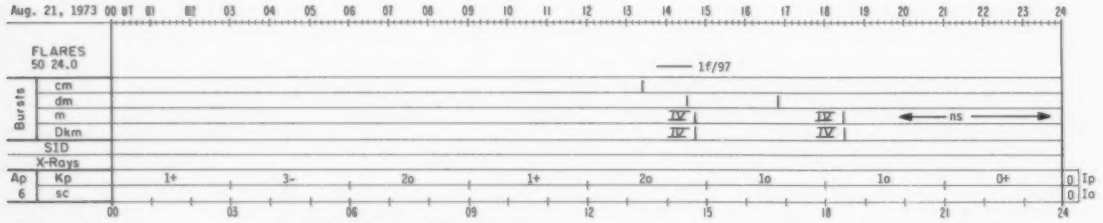
74 10 cm flux
7 Rz

One of ten most magnetically quiet days.



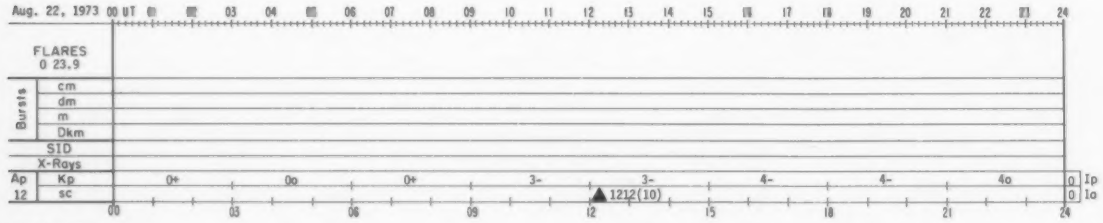
75 10 cm flux
7 Rz
CMP (12487) N23
(12499) N09

19242 N10 (βf)4

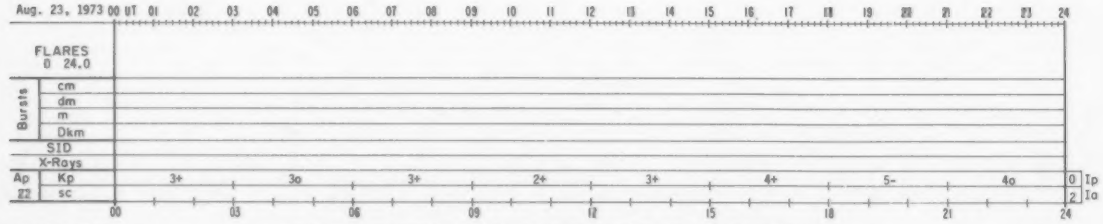


79 10 cm flux
15 Rz
CMP (12484) N07 (2)

One of ten most magnetically quiet days.



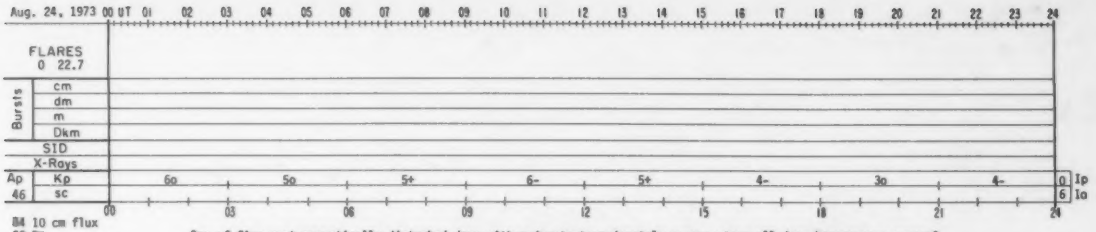
79 10 cm flux
10 Rz
CMP (12493) S01



80 10 cm flux
17 Rz
CMP 12488 N13

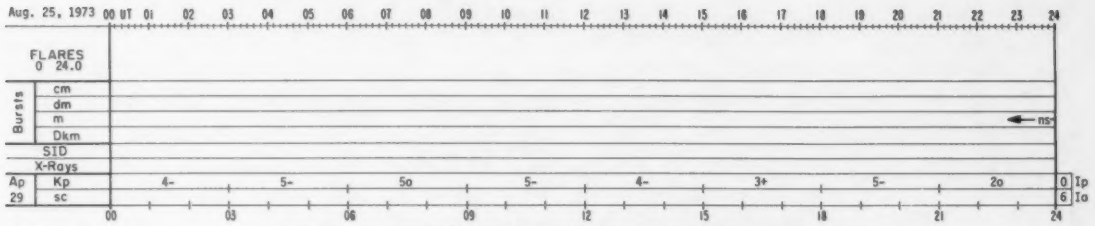
19240 N12 (β)4

One of five most magnetically disturbed days with moderate activity after 1200.



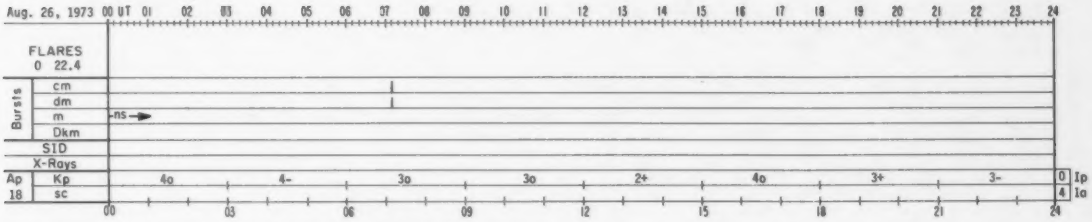
84 10 cm flux
22 Rz
CMP (12494) S27

One of five most magnetically disturbed days with moderate-to-moderately severe storm all day; homogeneous auroral arc over Western Atlantic with activity reported by eastbound aircraft visible to ϕ = 55° with base overhead at ϕ = 60°, becoming rayed band 0125, became multiple with rapid development, covering much of northern sky as seen from ϕ = 57° 0142, rayed patches overhead ϕ = 58° 0205, homogeneous arc southward, with base overhead to ϕ = 64°-65° 0325, southern limit of activity thereafter is unknown due to restricted viewing of aircraft with cloudy conditions over eastern Atlantic and British Isles.



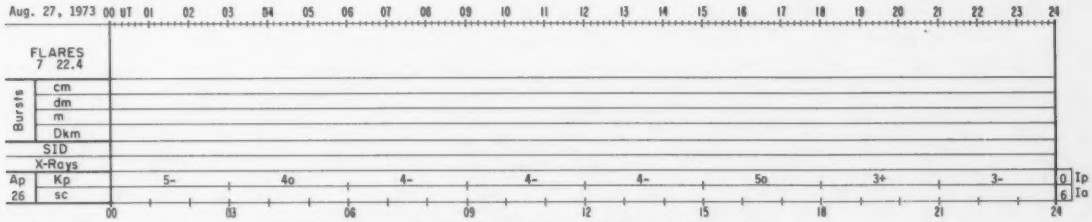
87 10 cm flux
28 Rz
CMP (12498) S45
(12492) S15
(12490) N38
(12491) N16

One of five most magnetically disturbed days with moderate activity to 2100; aurora overhead over USSR at ϕ = 60° 2100, auroral coronal rays visible overhead over western Atlantic at ϕ = 62° and visible to 58° 0400-0500; no coronal data 7 days earlier on E. limb.



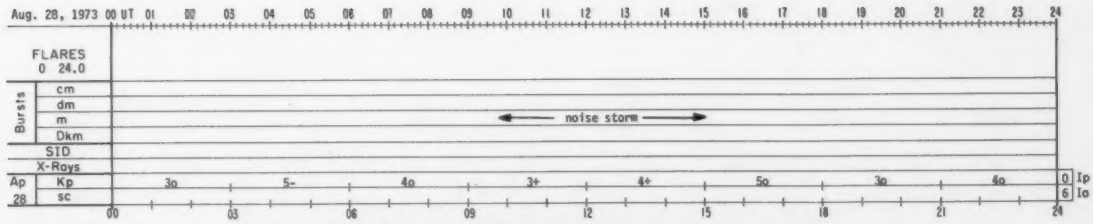
89 10 cm flux
[illegible] Rz
CMP (12496) S34

No coronal data 7 days earlier on E. limb.



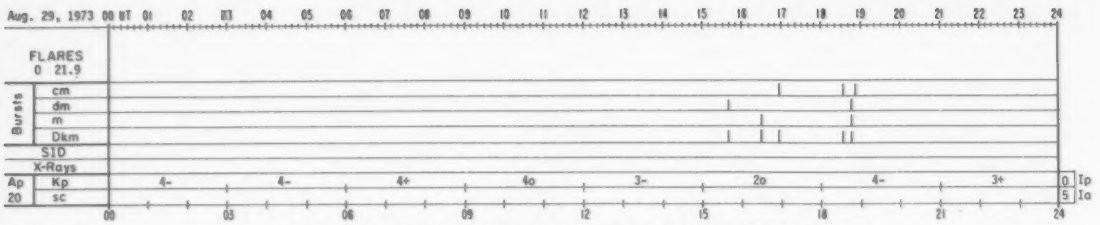
93 10 cm flux
37 Rz
CMP 12495 S05 (3)

One of five most magnetically disturbed days with moderate activity to 2100; auroral coronal rays visible overhead over western Atlantic to ϕ = 62° and visible to 58° 0100 and 0200, auroral glow visible over British Isles at ϕ = 58° 2310.



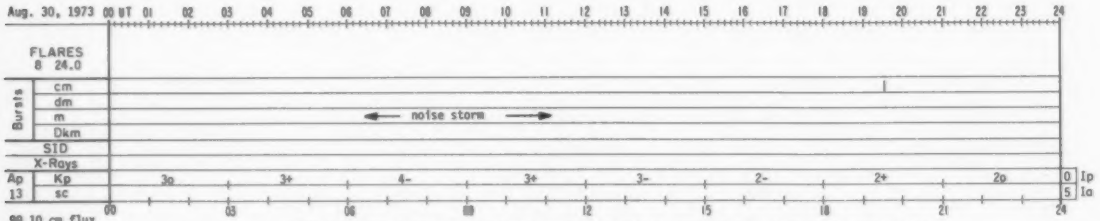
96 10 cm flux
47 Rz
CMP 12497 N14 (4)

One of five most magnetically disturbed days with slight-to-moderate activity all day; aurora overhead over USSR at ϕ = 63° 2200-2300, auroral glow visible over British Isles at ϕ = 57° 2200-2320 becoming rayed 2245-2300, rest of British Isles cloudy; no coronal data 7 days earlier on E. limb, br. green corona 7 days later on NW limb.



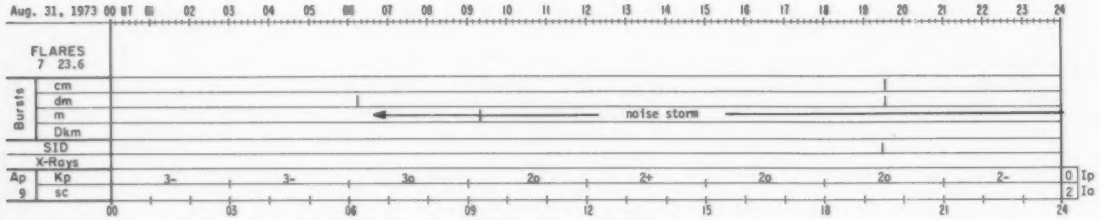
99 10 cm flux
56 Rz
CMP 12503 N03 19243 N02 (β)3
12500 N22

Aurora overhead over USSR at ϕ = 64° 0000 and ϕ = 59° 2100-2200, auroral glow visible over British Isles at ϕ = 58° 2015-2330; moderately br. green corona 7 days earlier on NE limb, br. green corona 7 days later on W. limb.



99 10 cm flux
64 Rz
CMP 12501 N14 (2) 19241 N14 (βp)5
19247 N14 (α) 2
(12511) N04 19250 N05 (βp)3

Aurora overhead over USSR at ϕ = 64° 0000; moderately br. green corona 7 days earlier on NE limb.



108 10 cm flux
82 Rz
CMP 12509 S13 19248 S13 (βf)3
(12505) N02

Moderately br. green corona 7 days earlier on NE limb.

REGIONAL FLARE INDEX

AUGUST 1973

MC MATH PLAGE NO.	LAT	CMP DATE	DATE FIRST FLARE	DATE LAST FLARE	FLARE-INDEX SUM	FLARE-INDEX MEAN	TOTAL NO. OF FLARES
12460	S 5	73/08/01.7	73/07/26	73/08/04	29.60	2.96	5
12461	N13	73/08/01.9	73/07/26	73/08/04	1015.90	101.59	4
12471	N15	73/08/04.2	73/07/28	73/08/09	2.52	0.19	2
12474	N 7	73/08/06.1	73/08/05	73/08/10	283.30	47.22	12
12472	S10	73/08/07.7	73/08/01	73/08/04	30.64	7.66	5
12488	N13	73/08/23.5	73/08/27	73/08/27	2.11	2.11	1
12497	N13	73/08/26.7	73/08/21	73/08/21	50.39	50.39	1
12503	N 3	73/08/29.3	73/08/27	73/08/27	4.97	4.97	1
12511	N 5	73/08/30.5	73/09/01	73/09/01	12.52	12.52	1
12501	N15	73/08/30.6	73/09/05	73/09/05	0.40	0.40	1

Note:
The Regional Flare Index and count of flares in each region has in previous months included each maximum of a multi-maximum event. This has caused some regions to appear to be more flare producing than is probably warranted. Beginning with April 1972 only the principal maximum of a multi-maximum event will be used in the calculation. Also note that only the Confirmed Events as selected for the "I.A.U. Quarterly Bulletin on Solar Activity" are included in the calculation.

Because of differences in method of calculation, the dates of Central Meridian Passage for the McMath Plage Regions vary somewhat from those given elsewhere. Any region not listed here produced no confirmed flares during its disk passage.

MISCELLANEOUS DATA

Contents

Page

Cosmic Ray Indices
Alert and Deep River -- December 1973 64-65

For explanations of the data contained herein see *Descriptive Text* published as supplement to February 1974 *Solar-Geophysical Data* (Number 354).

COSMIC RAY INDICES

(Pressure Corrected Hourly Totals)

DECEMBER 1973

DATE	ALERT	DEEP RIVER
1	7507.5	7054.7
2	7536.4	7034.9
3	7536.5	7046.3
4	7564.5	7036.9
5	7525.0	7020.3
6	7542.2	7044.1
7	7518.4 (19)	7024.2
8	7516.7	7023.3
9	7536.3	7036.5
10	7540.4 (6)	7044.2
11	7571.9 (23)	7074.6
12	7520.7	7067.2
13	7539.8	7053.7
14	7577.0	7059.1
15	7543.0	7037.1
16	7531.8	7047.5
17	7511.3 (23)	7066.0
18	7523.4	7095.6
19	7587.6	7101.3
20	7604.7	7070.1
21	7555.5	7021.8
22	7504.8	7007.3
23	7507.8	6999.7
24	7550.3	7022.4
25	7573.0	7013.6
26	7589.0	7012.7
27	7595.7	7058.0
28	7591.0	7050.9
29	7523.7	7000.0
30	7518.2	7004.8
31	7475.7	6967.8

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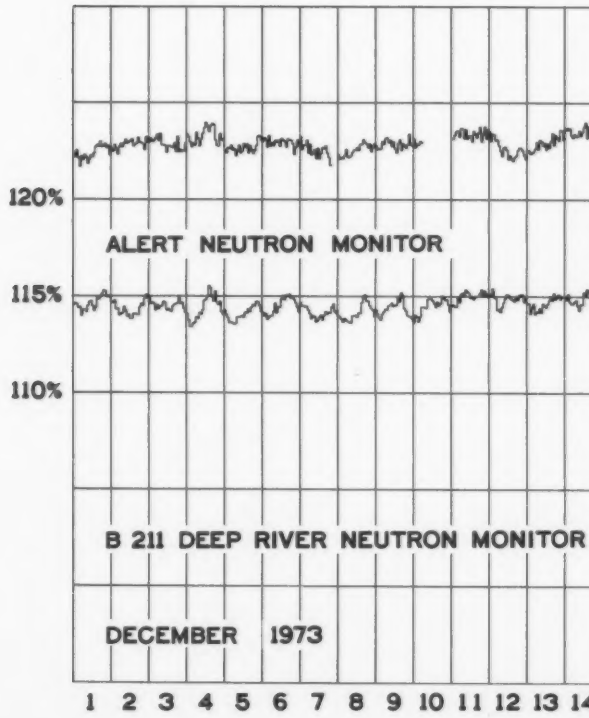
(Pressure C

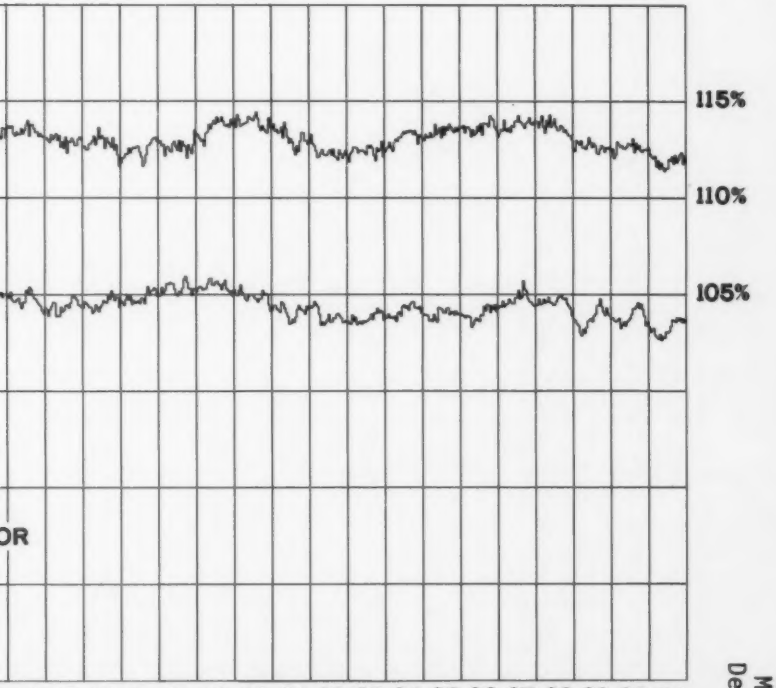
DE



SMIC RAY INDICES

Corrected Hourly Totals)

DECEMBER 1973



65
Misc
Dec 73

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UAG-8 "Data on Solar-Geophysical Activity October 24-November 6, 1968", Parts 1 and 2, compiled by J. Virginia Lincoln, World Data Center A, Upper Atmosphere Geophysics, ESSA, March 1970, 312 pages, price (includes Parts 1 and 2) $1.75.

UAG-9 "Data on Cosmic Ray Event of November 18, 1968 and Associated Phenomena", compiled by J. Virginia Lincoln, World Data Center A, Upper Atmosphere Geophysics, ESSA, April 1970, 109 pages, price 55 cents.

UAG-10 "Atlas of Ionograms", edited by A. H. Shapley, ESSA Research Laboratories, May 1970, 243 pages, price $1.50.

UAG-11 "Catalogue of Data on Solar-Terrestrial Physics", June 1970. (now obsolete).

UAG-12 "Solar-Geophysical Activity Associated with the Major Geomagnetic Storm of March 8, 1970", Parts 1, 2 and 3, compiled by J. Virginia Lincoln and Dale B. Bucknam, World Data Center A, Upper Atmosphere Geophysics, NOAA, April 1971, 466 pages, price (includes Parts 1-3) $3.00.

UAG-13 "Data on the Solar Proton Event of November 2, 1969 through the Geomagnetic Storm of November 8-10, 1969", compiled by Dale B. Bucknam and J. Virginia Lincoln, World Data Center A, Upper Atmosphere Geophysics, NOAA, May 1971, 76 pages, microfiche only, price 90 cents.

UAG-14 "An Experimental, Comprehensive Flare Index and Its Derivation for 'Major' Flares, 1955-1969", compiled by Helen W. Dodson and E. Ruth Hedeman, McMath-Hulbert Observatory, The University of Michigan, July 1971, 25 pages, price 30 cents.

UAG-15 "Catalogue of Data on Solar-Terrestrial Physics", July 1971. (now obsolete).

UAG-16 "Temporal Development of the Geographical Distribution of Auroral Absorption for 30 Substorm Events in each of IQSY (1964-65) and IASY (1969)", by F. T. Berkey, V. M. Driatskiy, K. Henriksen, D. H. Jelly, T. I. Shchuka, A. Theander and J. Yliniemi, September 1971, 131 pages, price 70 cents.

UAG-17 "Ionospheric Drift Velocity Measurements at Jicamarca, Peru (July 1967-March 1970)", by Ben B. Balsley, Aeronomy Laboratory, National Oceanic and Atmospheric Administration, Boulder, Colorado, and Ronald F. Woodman, Jicamarca Radar Observatory, Instituto Geofisico del Perú, Lima, Peru, October 1971, 45 pages, microfiche only, price 45 cents.

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UAG-19 "Reevaluation of Solar Flares 1967", by Helen W. Dodson and E. Ruth Hedeman, McMath-Hulbert Observatory, The University of Michigan, and Marta Rovira de Miceli, San Miguel Observatory, Argentina, June 1972, 15 pages, price 15 cents.

UAG-20 "Catalogue of Data on Solar-Terrestrial Physics", October 1972. (now obsolete).

UAG-21 "Preliminary Compilation of Data for Retrospective World Interval July 26 - August 14, 1972", compiled by J. Virginia Lincoln and Hope I. Leighton, World Data Center A for Solar-Terrestrial Physics, November 1972, 128 pages, price 70 cents.

UAG-22 "Auroral Electrojet Magnetic Activity indices (AE) for 1970", by Joe Haskell Allen, National Geophysical and Solar-Terrestrial Data Center, Environmental Data Service, November 1972, 146 pages, price 75 cents.

UAG-23 "U.R.S.I. Handbook of Ionogram Interpretation and Reduction", Second Edition, November 1972, edited by W. R. Piggott, Radio and Space Research Station, Slough, U.K., and K. Rawer, Arbeitsgruppe für Physikalische Weltraumforschung, Freiburg, G.F.R., November 1972, 324 pages, price $1.75.

UAG-24 "Data on Solar-Geophysical Activity Associated with the Major Ground Level Cosmic Ray Events of 24 January and 1 September 1971", Parts 1 and 2, compiled by Helen E. Coffey and J. Virginia Lincoln, World Data Center A for Solar-Terrestrial Physics, December 1972, 462 pages, price (includes Parts 1 and 2) $2.00.

UAG-25 "Observations of Jupiter's Sporadic Radio Emission in the Range 7.6-41 MHz, 9 September 1968 through 9 December 1971", by James W. Warwick, George A. Dulk and David G. Swann, Department of Astro-Geophysics, University of Colorado, February 1973, 35 pages, price 35 cents.

UAG-26 "Data Compilation for the Magnetospherically quiet Periods February 19-23 and November 29 - December 3, 1970", compiled by Helen E. Coffey and J. Virginia Lincoln, World Data Center A for Solar-Terrestrial Physics, May 1973, 129 pages, price 70 cents.

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UAG-28 "Collected Data Reports on August 1972 Solar-Terrestrial Events", Parts 1, 2 and 3, edited by Helen E. Coffey, World Data Center A for Solar-Terrestrial Physics, July 1973, 932 pages, price (includes Parts 1-3) $4.50.

UAG-29 "Auroral Electrojet Magnetic Activity Indices AE (11) for 1968", by Joe Haskell Allen, Carl C. Abston and Leslie D. Morris, National Geophysical and Solar-Terrestrial Data Center, Environmental Data Service, October 1973, 148 pages, price 75 cents.

UAG-30 "Catalog of Data on Solar-Terrestrial Physics", prepared by Environmental Data Service, NOAA, Boulder, Colorado, October 1973, 317 pages, price $1.75.

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